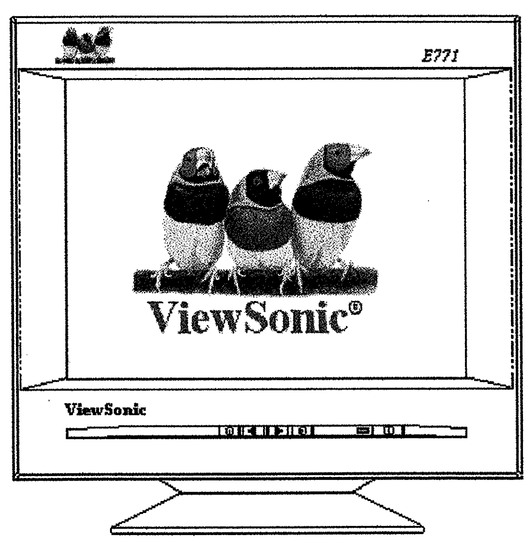
Service Manual

ViewSonic E771-2

Model No. VCDTS21445-2

17" Digital Controlled Color Monitor

E^2 Series



(Rev. 2 – March 2000)

ViewSonic® 381 Brea Canyon Road, Walnut, California 91789 USA - (800) 888-8583

Revision History

Revision	Date	Description Of Changes	Approval
1.0	10/30/98	Initial Issue	T. Sears
2.0	3/15/00	Corrected Model Number on Cover	T. Sears

TABLE OF CONTENTS

1 Precautions

Follow these safety and servicing precautions to prevent damage and to protect against potential hazards such as electrical shock and X-rays.

1-1 Safety Precautions

1-1-1 Warnings

1. For safety purpose, do not attempt to modify the circuit board, and always disconnect the AC power before performing servicing on the monitor.
2. Operation of the monitor outside its cabinet or with the cover removed involves the risk of shock hazard. Repair work on the monitor should only be attempted by service personnel who are thoroughly familiar with all necessary safety precautions and procedures for working on high voltage equipment.
3. Do not lift the CRT by the neck. After completely discharging the high voltage anode, handle the CRT only when wearing shatterproof goggles. Try to keep the CRT away from the body during handling.
4. High voltage should always be kept at the rated value, no higher. Only when high voltage is excessive are X-rays capable of penetrating the shell of the CRT. Operation at high voltages may also cause failure of the CRT or high voltage circuitry.
5. The CRT is especially constructed to limit X-ray emission to 0.5mR/HR at 300 microamperes anode current. To ensure continued X-ray protection, replace the CRT with only the same or equivalent type as the original, and adjust the anode's voltage to the designated maximum rating, never to exceed.

1-1-2 Safety Checks

Before returning the monitor to the user, perform the following safety checks:

1. Inspect to make certain that each lead dress is not pinched or that hardware is not lodged between the chassis and other metal parts in the monitor.
2. Inspect all protective devices such as nonmetallic control knobs, insulating materials, cabinet backs, adjustment and compartment covers or shields, isolation resistor-capacitor networks, mechanical insulators, etc.
3. AC Leakage Current Check

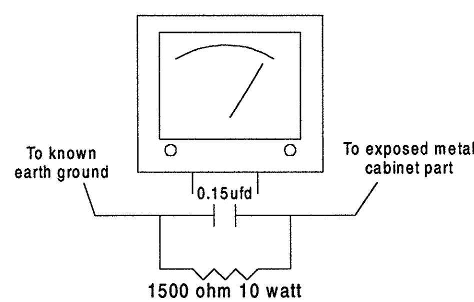
   Always perform the AC Leakage Current Check on the exposed metal parts, including metal cabinets, screwheads and control shafts, as follows:

   a) Plug the AC line cord directly into a rated AC outlet. Do not use an isolation transformer during the check.

   b) Use an AC voltmeter with at least 5000 ohms per volt sensitivity as follows:

   Connect a 1500 ohms, 10 watt resistor paralleled by a 0.15uF AC capacitor in series with all exposed metal cabinet parts and a known earth ground, such as electrical conduct or electrical ground connected to earth ground, as shown in the Figure 1-1. Measure the AC voltage across the combination of resistor and capacitor.

Figure 1-1. Set Up For AC Leakage Current Check



   c) Reverse the AC plug at the AC outlet and repeat the steps for AC voltage measurements for each exposed metal part.

   d) Voltage reading must not exceed 0.3 volts RMS, equivalent to 0.2 milliampere AC. Any value exceeding this limit ill constitute a potential shock hazard and must be corrected immediately.

1-1-3 Product Safety Notices

Many electrical and mechanical parts in this chassis have special safety-related characteristics which are often not evident from visual inspection, the protection afforded by them may not be obtained by replacing them with components rated for higher voltage, wattage, etc. Before replacing any of these components, consult the Recommended Spare Parts List given at the end of this manual. Any of the replacements that do not provide the same safety characteristics may result in shock, fire, X-ray emission or other hazards.

1-2 Servicing Precautions

Warning: An electrolytic capacitor installed with the wrong polarity might explode.

Caution: Before performing servicing covered by this service manual, read and follow the Safety Precautions section of this manual.

Note: If unforeseen conflict between the following servicing precautions and any of the safety precautions, always follow the safety precautions

1. Follow closely the servicing precautions printed on the monitor cabinet and chassis.
2. Always unplug the AC power cord from the AC power source before removing or installing any component or assembly, disconnecting PCB plugs or connectors and connecting a test component in parallel with a capacitor.
3. When replacing parts or circuit boards, clamp the lead wires around the component before soldering.
4. When replacing a high wattage resistor (>0.5W metal oxide film resistor) in the circuit board, keep the resistor about 1 cm (1/2 inch) away from the circuit board.
5. Keep wires away from the high voltage or high temperature components.
6. Keep wires in their original positions so as to minimize interference.
7. Always connect a test instrument's ground lead to the instrument chassis ground before connecting the positive lead; always remove the instrument's ground lead last.

> After putting the rear cover back and make sure the monitor is working properly, the Hi-Pot & Ground Continuity tests **MUST BE** performed before the monitor is returned to user.

1-3 Hi-Pot Test

1. Test Equipment

   Puncture test model PM5530 ADT or KIKUSU TOS-8750 voltage tester or equivalent approved equipment.

Note : The test equipment must be calibrated in regular period.

2. Test Setup
   a) Apply voltage : DC 2100 VDC
   b) Test duration : 3 seconds
   c) Cutoff current should be set to 3 mA
3. Test Procedure
   a) Unplug power cord from AC source.
   b) Put the power switch of the monitor in the "ON" position.
   c) Leave signal cable un-connected.

d) Plug monitor power cord to the Hi Pot tester terminals.
e) Turn on tester and watch the indicator or beeper.
f) If the indicator lamp lighten, or beeper beeps, the test fails.

1-4 Ground Continuity Test

1. Test Equipment

   AC low ohm tester TOS-6100 or equivalent approved equipment.

Note : The test equipment must be calibrated in regular period.

2. Test Setup
   a) Test duration : 3 seconds
   b) Set current limit at 25 A
   c) The grounding resistance must be less than 0.1 ohm.
3. Test Procedure
   a) Plug the monitor power cord to the tester terminals.
   b) Make sure all connections are well-contacted.
   c) Turn on monitor power and tester power.
   d) Press "Test" button.
   e) If green light shows up, means test OK.
      If red light shows up, means test fails.
   f) If the Tester has a digital display, the resistance value must not exceed 0.1 ohm.

Note : Be sure not to touch the metal portion of the signal cable head during testing.

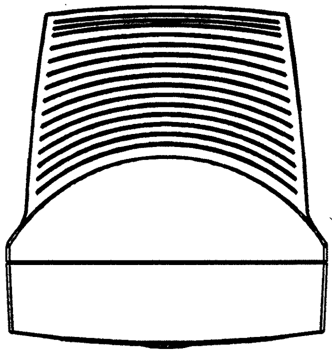
2 Product Specifications

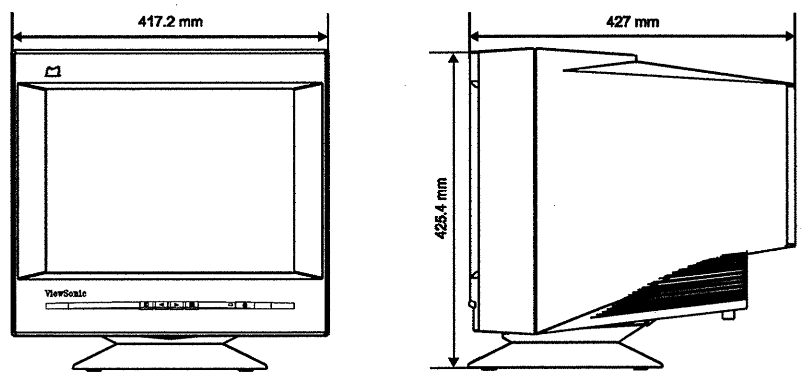
2-1 Specifications

Picture Tube	17-inch (15.8-inch Visual image area), sloted mask, 90 degrees deflection, dot type black matrix, medium short persistence phosphor, dark tint, non-glare/ anti-static screen, 0.27 mm dot pitch
Scanning Frequency	VGA, Super VGA, 1024x768@60/70/75/85 Hz, 1280x1024@60 Hz
Maximum Resolution	1280 dots (H) x 1024 lines (V) @60Hz refresh rate
Display Area	300 mm (H) x 225 mm (V) typical
Display Characters	80 char. x 60 rows on a 10 x 10 matrix
Display Colors Analog Input	Unlimited Colors
Synchronizatin Signals	Separate Sync: horizontal/vertical, TTL, positive or negative
Synchronization Frequencies	Horizontal : 30 to 69 kHz Vertical : 55 to 120 Hz
Signal Connectors	15-pin, D-shell connector
Video Signals	Analog : 0.7 Vp-p, RGB positive
Power Input	95 Watts (maximum) AC rated voltage, 100VAC to 240VAC
Misconvergence	Center Area : ≤ 0.3 mm; Corner Area : ≤ 0.4mm
User Controls	Power On/Off, Contrast, Brightness, Horizontal Size, Horizontal Position, Vertical Sizs, Vertical Position, Pincushion, Trapezoid, Rotation, Color temperature, Language, Display Frequency, Degauss, Recall, H. Moire, V. Moire
Service Controls	PWB-1410 : R-bias (VR910), G-bias (VR940), B-bias (VR970), PWB-1440 : power voltage adjust (VR801), high voltage adjust (VR802), focus1, focus2
Preset Modes	12 (see Table 2-2. Timing Chart)
Environmental Considerations	Operation temperature : 5°C to 40°C ambient Storage temperature : -40°C to 65°C ambient Humidity : 5% to 95% ambient Storage Humidity : 5% to 95% (non-condensing) Altitude : up to3000m above sea level

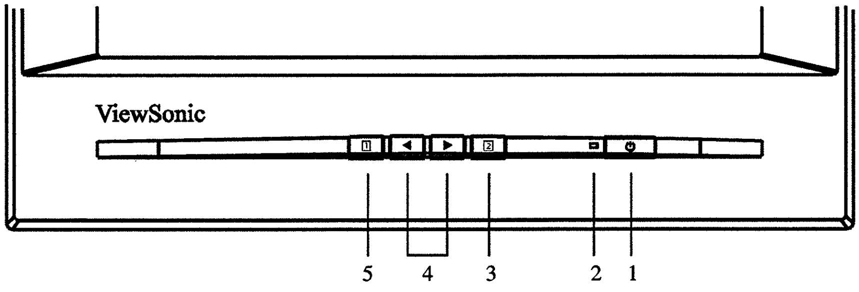
Note: Above specifications are subject to change without prior notice.

2-2 Dimension





2-3 Front Panel



1. Power ON/OFF switch.
2. Power LED
3. Confirms menu selection
4. Scrolls through menu to choose an icon for adjustment / Adjusts level of selected icon
5. Displays menu & exits menu

2-4 Signal Cable Pin Connections

Table 2-1. Pin Assignments

Pin	Signal	Pin	Signal
1	Red video	9	NC
2	Green video	10	Digital Ground
3	Blue video	11	Ground
4	Ground	12	SDA
5	NC	13	H-Sync
6	Red ground	14	V-Sync/VCL
7	Green ground	15	SCL
8	Blue ground		

Note: This pin is used for selftest detection. Connect this pin to ground at the PC end.

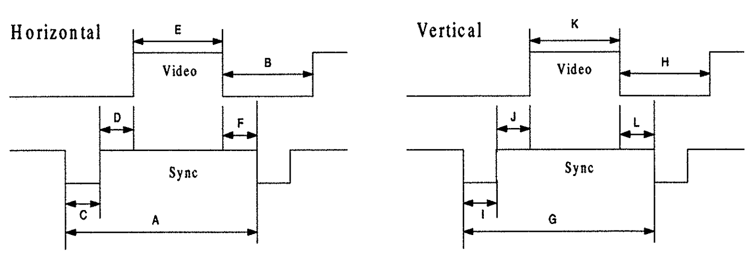
2-5 Timing Chart

This section describes the timings that the computer industry recognizes as standard for computer-generated video signals.

Table 2-2. Timing Chart

IMode	1	2	3	4	5	6	7	8	9	10	11	12
H. Dots	720	640	640	640	640	800	1024	800	832	1024	1280	1024
V. Dots	400	480	480	480	480	600	768	600	624	768	1024	768
H-freq (kHz)	31.47	31.47	35	37.5	43.3	46.8	48.36	53.67	49.725	60.02	64.34	68.68
Sync Polarity	-	-	-	-	-	+	-	+	-	+	+	+
A period us	31.78	31.78	28.57	26.666	23.111	21.333	20.68	18.63	20.111	16.66	15.55	14.56
B Blking us	6.356	6.356	7.407	6.35	5.33	5.172	4.923	4.409	5.586	3.657	3.589	3.725
C Sync us	3.81	3.81	2.116	2.07	1.556	1.616	2.092	1.138	1.117	1.219	0.972	1.016
D B.P. us	1.907	1.907	3.175	3.81	2.222	3.232	2.462	2.702	3.910	2.235	2.248	2.201
E Active us	25.42	25.42	21.164	20.32	17.77-8	16.162	15.75	14.22	14.524	13	11.96	10.83-6
F F.P. us	0.636	0.636	2.116	0.51	1.556	0.323	0.369	0.569	0.559	0.203	0.374	0.508
V-freq (Hz)	70.08	59.95	66.667	75	85	75	60	85	74.55	75.03	60	85
Sync Polarity	+	-	-	-	-	+	-	+	-	+	+	+
O Period ms	14.27	16.68	15	13.33	11.764	13.333	16.67	11.76	13.414	13.33	16.67	11.77
P Blking ms	1.557	1.43	1.286	0.533	0.67	0.533	0.786	0.578	0.865	0.533	0.642	0.582
Q Sync ms	0.064	0.064	0.086	0.08	0.069	0.064	0.124	0.056	0.06	0.05	0.047	0.044
R B.P. us	1.08	1.02	1.114	0.407	0.578	0.448	0.6	0.503	0.784	0.466	0.501	0.524
S Active us	12.71	15.25	13.714	12.8	11.093	12.8	15.88	11.18	12.549	12.8	16.03	11.18
T F.P. us	0.413	0.35	0.086	0.026	0.023	0.021	0.062	0.019	0.02	0.017	0.094	0.015

Seperate Sync



H.Parameters:

A: Period
B: Blanking Time
C: Sync Width
D: Back Porch
E: Active Time
F: Front Porch

V.Parameters:

G: Period
H: Blanking Time
I: Sync Width
J: Back Porch
K: Active Time
L: Front Porch

2-6 Display Power Management Signal (DPMS)

Note: These power-saving states exceed the Environmental Protection Agency (EPA) Energy Star requirements and the Video Electronics Standard Association (VESA) for Display Power Management Signal (DPMS) .

Table 2-3. Display Power Management Signal (DPMS)

State	LED Color	H-Sync	V-Sync	Power Consumption
ON	Green	Pulse	Pulse	Normal
STANDBY	Yellow	No Pulse	Pulse	<15 watts
SUSPEND	Yellow	Pulse	No Pulse	<15 watts
OFF	Amber	No Pulse	No Pulse	<8 watts

2-7 TCO Version (Optional)

The monitor meets the TCO 92, NUTEK energy saving, electric and magnetic field requirements. Also it is compliant with TCO 95 (optional) labelling scheme.

2-7-1 TCO 92 Version

The emission from magnetic and electric field must comply with the limits specified by the Swedish Board for Measurement and Testing, commonly known as MPR 1990 recommendations. These limits are summarized in the Table 2-4.

Table 2-4. TCO 92 Requirements

	VLF/TCO	ELF/TCO
Magnetic Field	25 nT	200 nT
Electric Field	1 V/m	10 V/m
Frequency Range	2~400 kHz	5~2000 Hz
Value	RMS	RMS
Distance	30 cm	30 cm
Electrostatic Potential	+/- 500 V	+/- 500 V

The monitor is designed with selected CRT and carefully routed wires around CRT, make sure exactly the same routing scheme is used for CRT replacement.

2-7-2 TCO 95 Version (Optional)

The TCO 95 scheme is for international and environmental labelling of personal computers. The labelling scheme was developed as a joint effort by the TCO (The Swedish Confederation of Professional Employ ees), Naturskyddsforeningen (The Swedish Society for Nature Conservation) and NUTEK (The National Board for Industry and Technical Development in Sweden).

1) Scope

TCO 95 touches on ergonomic qualities, emissions (electrical and magnetic fields), energy efficiency and ecology (with demands for environmental adaptation for both the product and the production processes at the manufacturing plant).

2) EnvironmentalRequirements

The monitor abides by the environmental demands concerning restrictions on the presence and use of heavy metals, brominated and chlorinated flame retardants, CFCs (freons), and chlorinated solvents, among other things. The monitor is also recyclable.

3) Energy Requirements

The monitor also follows the energy requirements that, after a certain period of inactivity, the monitor shall reduce its power consumption to a lower level in one or more stages.

4) Others

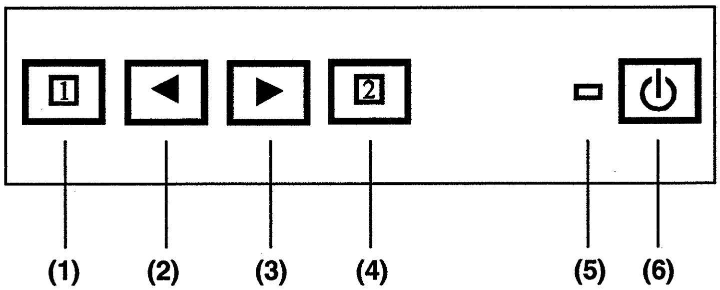
The monitor meets the strict environmental demands for the reduction of electric and magnetic fields, physical and visual ergonomics and good usability.

Table 2-5. TCO 95 Visual Ergonomics

Feature	Standard	Description
Linearity	1% or less	Difference in length of columns or rows compared to corresponding lengths through the center of the monit
Display Luminance	100 cd/m2 (at least)	
Luminance Uniformity	1.7:1 or less	The ratio is between the max to min luminanc whole active area.

3 Control Location and Functions

3-1 Front Panel



(1) Function Key
(2) Decrease Key
(3) Increase Key
(4) Select Key
(5) Power LED
(6) Power ON/OFF

3-2 Front Panel Keys Functions

1. Function Key: Display the main menu, and exit the adjustment screen and save adjustments.
2. Decrease Key: Scroll across main menu, highlighting control to be adjusted. Decrease value of selected control. Toggle between Contrast and Brightness adjustment screens.
3. Increase Key: Scroll across main menu, highlighting control to be adjusted. Increase value of selected control. Toggle between Contrast and Brightness adjustment screens.
4. Select Key: Press once to display adjustment screen. Press again, for some controls, to toggle between controls shown in pairs on main menu.
5. Power LED: Display different modes (ON, standby, suspend or OFF) of the monitor by showing different color for each mode.
6. Power ON/OFF: To turn the monitor ON and OFF.

3-3 Adjustment Procedure

1. Press (6) key to turn on the monitor.
2. At normal condition, press (1)on the front panel to activate the on-screen manager (OSM) menu. But to enter the internal adjustment menu, keep pressing (1) & (4) key simultaneously and then press (6) key.
3. To select a user control, press (2) or (3) key repeatedly until the control is highlighted.
4. To adjust the value for particular control, press (4), then press the (2) or (3) key. There are a few parameters to obtain the desired value that do not require any adjustment, like Manual Degauss, Memory Recall.
5. Some controls are grouped in pairs on the main menu. Press (4) key to toggle between them.
6. To save your adjustments and exit screen, press (1) key. The menu will automatically clear out from the screen if no keys are pressed within 30 seconds.

4 Operation Theory

This is a fully digital controlled multi-sync color monitor that is compliant with DDC1 and 2B Plug and Play VESA standard and offers the following main features.

4-1 Main Features

1. Simplified design with minimum components.
2. The NOVATEK NT68P61A processor-- that has I^2C BUS controlled geometric correction, contrast and brightness-- offers the functions for: (a) Contrast, (b) Brightness, (c) H-size, (d) H-position, (e) V-size, (f) V-position, (g) Pincushion, and (h) Trapezoid.

   In addition, it also offers more functions as: (a) Sync. processor, I/P and O/P, (b) Mute, (c) Power saving - Suspend & Stand-By, (d) Power saving override, (e) DDC1/2B, (f) I^2C Bus for auto-alignment through signal cable (g) CS1/CS2/CS3/CS4 for linearity and size compensation.
3. Stores up to 14 factory preset modes and offers 8 user modes. There are 16 function icons at OSD. They are controlled by [1] ◄ ► [2] keys on front panel.
4. Powerful PHILIPS TDA4854 and TDA4866 present the following useful functions: (a) Pincushion, (b) Trapezoid, (c) V-Position, (d) V-Size, (e) Vertical's "C" and "S" correction -- factory adjust, (f) Pincushion's V. position correction, (g) Corner correction -- factory adjust, (h) Pincushion unbalance correction -- factory adjust, (i) Parallelogram distortion -- factory adjust, (j) Moire cancellation -- factory adjust, (k) X-ray protection, and (l) Full horizontal and vertical auto sync capability.
5. Software controlled auto shut off function activated if fH < = 29 kHz and fH > = 70 kHz.
6. Full range AC input and simplified line filter design.

4-2 Microcontrol Section

1. This monitor uses NOVATEK NT68P61 CPU. It contains a 6502 8-bit CPU core, 256 bytes of RAM used as working RAM and stack area, 24k bytes of OTP ROM, 14-channel 8 bit PWM D/A converter, 2-channel A/D converters for key detection saving I/O pins, internal H. sync and V. sync signals processor providing mode detection, and an I^2C bus interface. When H/V sync through D-Sub signal cable enter pin 39 and pin 40, the CPU performs frequency / polarity detection and calculate and send to H/V sync OUT. Then CPU reads the data from I703 and transfer to device 4854 and some DAC in CPU, above operation takes about 500 ms.
2. There allowed 14 factory preset modes and 8 user modes. There are 8 functions, Contrast, Brightness, H. Size, H. Position, V. Size, V. Position, Pincushion, and Trapezoid, all controlled by OSD icon which can be adjusted by user.
3. The pin 24 and pin 25 are used for ATE function. When CPU receives C6 as slave address, it will operate in ATE mode which is used for auto-alignment. After alignment the data will be stored in I703.
4. The user control parameters are selected by OSD icons, through [1] ◄ ► [2] keys, they are detected by sensing the voltage through R710, R740, R711, R743, R741, R711 to pin 13 and 14 of I701.

4-3 Deflection Section

1. I^2C -- autosync deflection controller is TDA4854.
2. The TDA4854 is a high performance and efficient solution for autosync monitors. All functions are controllable by I^2C bus. SDA and SCL signals come from microprocessor feed to pin 19 and pin 18 to control all functions.

4-3-1 Horizontal Section

1. The oscillator is driven by the currents in R419 and R420. The minimum oscillator frequency is determined by R419 and the maximum frequency is determined by R420.
2. Horizontal sync comes into pin 15 through R318. And horizontal flyback pulse comes into pin 1 through R401 and by pass filter C403 from pin 9 of FBT and C453, R4C2, Q414, R4C3 for AFC loop.
3. Horizontal driver (pin8) O/P to Q401 via C410.

4-3-2 Vertical Section

1. Vertical sync comes into pin 14 through R317.
2. The free running frequency is determined by R301 and C301.

4-3-3 Vertical O/P section

1. The differential output currents from pin 13 of Vout1 and pin 12 of Vout2 can be directly coupled to the vertical deflection booster pin 1 and pin 2 of TDA4866.
2. The TDA4866 has two output stages which are current driven in opposite phase and operate in combination with the deflection coil in a full bridge configuration.
3. This IC is powered by two sets of positive voltage. (+12V at pin 3, +50V at pin 7).

4-3-4 E-W/Trapezoid and H. Width Controls

1. The horizontal O/P stage uses diode modulator D419, D423, C411, C412, L409 and C418 for East-West (Pincushion) Trapezoid and H. width controls.
2. The scan current is determined by B^+ minus Vm (the voltage of C418) values and the pincushion control is accomplished by Darlington pair Q418 and Q419 by coupling a parabola waveform from pin 11 of TDA4854. The H. width / corner and trapezoid correction are also accomplished by this pin 11. The DC level controls H. size. The AC level is combined with side pin and trapezoid corners functions.

4-3-5 X-Ray Protection

1. To avoid X-ray hazard, a DC voltage generated by pin 6 of FBT and rectified by D408, C432 and divided by R403, R404 and R405 come into pin 2 of TDA4854.
2. If this voltage is higher than 6.39 V, then TDA4854 will be activated to float HUNLOCK (pin17), H. DRV(pin 8), B DRV (pin 6), VOUT1 (pin 12), VOUT2 (pin13). After that all deflection circuit stop working.

4-3-6 G1, Blanking and Brightness

1. The vertical blanking signal comes from two ways. One is from pin 8 of I301 (TDA4866), the other is from vertical sync (pin 32 of I701). These two positive vertical pulses through Q406 amplified and converted into negative pulse and sent to G1 for vertical blanking.
2. In protection mode or an out-of- range situation HUNLock will send 5 V pulse to saturate Q406 and to cutoff Q407, then G1 will go down to -140V. During the mode change, Mute acts as same as HUNLock's.
3. The brightness is controlled by CPU pin 1 through PNP transistor Q407. The lower control voltage causes Q407 conducts harder to get brighter raster and a higher control voltage causes Q407 conducts lighter to get lower brightness.

4-3-7 Contrast Section

1. Contrast is controlled by I701 through I^2C bus to I501 (TDA4886) directly.
2. Beam current is detected through T402 (FBT) pin 7, C429, VR401, R460, and detected voltage feeding into R461, R4F1, Q410, R430, R469, R524 to control I501 pin 24 voltage. When I501 pin 24 voltage drops below 5V, the ABL function will happen.

4-3-8 H/V size breathing compensation

1. Beam current is sensed as above section (4-3-7 item 2) and this voltage routes through R458, C460, Q409, R436, R459, then through R418 to I401 pin 31 for H. size compensation, through R302 to I401 pin 21 for V size compensation.

4-3-9 Dynamic focus circuity

The dynamic focus is applied to improve the corner focus performance, it includes horizontal and vertical dynamic focus.

1. Horizontal and vertical dynamic comes from I401 pin 32 and amplified through C450, R499, Q431, Q404, Q403, R437 and feed to FBT dynamic focus pins.
2. This amplifier need 800V voltage supply, it comes from FBT pin 2 and rectified through R4C6, D422 and C448.

4-4 Power Supply Section

4-4-1 AC Rectifier

The circuit can accept 90 V to 264 V AC input through D801~D804 bridge diodes and C808 filtering to get DC 126 V~364 V for power conversion in T802.

4-4-2 Line Filter

It consists of C801, C802, C803, C816, C852, C853, C807 and T801 and meets EMI regulation.

4-4-3 Power LED Status

1. The LED has 3 leads with common cathode to emit green and amber color light for different power saving indications. It is controlled by CPU.
2. Normal : Green light

   Amber LED is off because CPU pin 35 is high and pin 34 is low, only green LED is turned on.
3. Standby / Suspend : Yellow light

   CPU pin 34 and pin 35 are low, then green and amber LED are turned on. That is yellow.
4. Off Mode : Amber light

   CPU pin 34 is high and pin 35 is low, then green is off and amber is illuminated.

4-4-4 Auto Degaussing

When S701 turns on, pin 19 of I701 will send a signal to Q802 and turns on RL801 for degaussing. After 4 seconds, it will turn off RL801 automatically.

4-4-5 PWM Control

1. Start Up

   The I801 (MC3842) gets power from R807, R873, C812 and pin 7 voltage reaches 16 V for starting up. The I801 starts oscillation at 22 kHz, sawtooth on pin 4 and pin 6 output to drive Q803/T802. Once Q803 switching on, D806, C804 set up an 15 V to keep I801 working through D808 auxiliary voltage.

2. Regulation

   The DC O/P voltage is proportional to the auxiliary voltage, so I801 pin 2 senses the feedback voltage from the divider R802, R823, VR801 and R821 to compare with the built-in 2.5 volts reference voltage for error amplifier operation. Finally pin 6 can modulate the different duty cycle by VR801 setting to achieve regulation purpose.

4-4-6 Synchronization

1. Normal Mode

   The sync pulse from FBT (31 kHz~69 kHz) via C815, R826, D824, C814 and R816 to pin 4 of I801 to keep I801 synchronized with horizontal sync input frequency.

2. Power Saving Modes: Standby/Suspend

   Because there is no pulse from FBT, so the free-run frequency is decided by R815 and C814 and the SMPS works at 22 kHz.

3. Override

   The horizontal free run frequency is about 62.5 kHz under override condition, SMPS is synchronized to this frequency.

4-4-7 O.V.P.

If the auxiliary voltage is higher than zener voltage ZD807 (18 volts) and makes pin 3 of I801 higher than 1 V, pin 6 duty cycle is limited to have the OVP activated.

4-4-8 O.P.P.

The excess current of T802 through R813, R865 and R864 can develop enough voltage on pin 3 then limit the power delivered because the pin 6 duty cycle is limited too.

4-4-9 Step Up Power Supply For FBT

1. The B+ of FBT is proportional to horizontal frequency, that is the higher frequency, the higher voltage. The basic voltage is 55 volts from T802 pin 3 via D840, L812 and the gate control of Q807 comes from I401 pin 6 via Q808, Q809 and D821. The duty cycle is controlled by C843, C462, R489, R846 and R856, R857, R858 VR802 combination ratio.
2. The regulation and boost up (from 68 V to 155 V or more, on demand). The H.V. is set at 25 kV (zero beam) by VR802 which senses the secondary O/P from FBT. The booster comprises Q807, L801, D820, C425 and I802 to offer the required B+ for different frequency modes.

4-5 Video Amplifier Section

1. RGB signal inputs are terminated by R501, R531 and R561 then pass through the coupling capacitors C503, C533 and C563 to the IC501 TDA 4886 preamplifier.
2. The amplifier RGB signals (0~3 Vpp) are adjusted by I^2C bus from I501, pin 5 is for clamp pulse which comes from pin 16 of TDA4854 to set up the equal clamp level.
3. The video output stages are amplified by I901 (LM2407).
4. The RGB cathodes cut off are adjusted by VR910, VR940 and VR970.
5. Under override condition, "NO SIGNAL" will show on the screen.

4-6 OSD (On Screen Display) Circuit

1. The I502 HTV018-08 is OSD IC. The OSD signals are worked by positive vertical pulse from I701 pin 32 that goes through R517 to I502 pin 10, and positive horizontal pulse from T402 pin 9 goes through C453, R422, Q414, R4C3 to I502 pin 5. CPU I701 pin 26, 27 (I^2C bus) transfers information to I502 pin 7, 8.
2. The OSD R. G. B signals and blanking signal are terminated at I502 pin 15,d 14, 13, and 12 to I501 pin 2, 3,4, and 1, then the OSD picture appeares.

5 Alignments and Adjustments

This section of the service manual explains how to make permanent adjustments to the monitor settings.

5-1 General Adjustments

5-1-1 Adjustment Conditions

a) Power Supply

Apply AC 115 V or 220 V

b) Warm-up Time

The monitor must be powered on for 15 minutes before starting any alignment, but requires 30 minutes of warm-up time for convergence adjustment.

c) Signal Input

1. Video: RGB Analog, 0.7 Vp-p, positive
2. Synchronization: Horizontal and vertical TTL signal, separate, positive or negative
3. All adjustments should be made using a signal of FH = 31.468 kHz, FV = 60 Hz, unless otherwise defined.

5-1-2 Equipment Required

The following equipments are necessary for adjustment procedures:

1. Volt-ohm-A meter (Sanwa FD-750C or equivalent)
2. 30 kV high voltage probe (HP34111A)
3. Oscilloscope (TEK2235 or equivalent)
4. Minolta Color Analyzer II
5. Signal generator (IBM PC with proper display cards or Chroma 2000)
6. Screwdriver

5-1-3 Switching Power Supply and Regulator Adjustment

a. The regulated B+ control has been preset in the factory and needs no adjustment. However, if any repair is made on the power supply section, the following readjustment procedures are recommended:

1. Allow the monitor to warm-up for about 15 minutes.
2. Apply XGA (1024 x 768 @ 68 kHz/85 Hz) signal to the monitor.
3. Connect a DC voltage meter to D814 "-" (on the control PCB), and adjust VR801 for 12.8 $\pm$ 0.2 V DC
4. If a fuse is broken during adjustment, remember to replace it with the exact same type of fuse.

b. If necessary, follow the following procedures to enter the factory mode.

1. Short ATE pin to GND wire and put COM wire short COM and ATE 1 at power off condition.
2. Press both [1] key and [2] key simultaneously then power on.

   Now, we are in the factory preset mode.
3. When turns the power off, this monitor will go back to normal mode (user mode).
4. When finish the normal alignment. Open ATE pin and change GND wire to GND 1, put COM wire to short COM and DDC.

5-2 Alignment Procedures

5-2-1 High Voltage Adjustment

CONDITION

Display image : Crosshatch pattern

PROCEDURE

Connect DC meter to TP3 and adjust VR802 to obtain a DC voltage of 152 ± 1V DC for CPT CRT M41AGE 93x46C or M41AGE83x46C.

5-2-2 Screen and White Balance Adjustment

CONDITION

Press [1] and [2] buttons simultaneously when switching the power "On".

Bias VRs : VR910, VR940, VR970

Display image : No video

PROCEDURE

1 Raster color setting

1-a. Set brightness (OSD Icon) to -30 V at G1 and 600 V at G2.

1-b Adjust VR910, VR940 and VR970 to maximum.

1-cAdjust VR940 to y=0.9 ± 0.2 FL.

1-d Adjust VR910 to get x=280 ± 5 and VR970 to get y=280 ± 5

1-eAdjust brightness to raster just distinguish.

CONDITION

Display image : 50 mm x 50 mm white block pattern

PROCEDURE

2 6500^{0}K color temperature setting

2-a. Set brightness to cutoff and contrast to maximum.

2-b Move cursor on OSD to choose color temperature icon.

2-c. Press [2] key to G gain then adjust G gain = 68 value, then adjust B, R to y=329±5, x=313±5.

2-d Adjust contrast to set y=40±2FL

2-eCheck x=313±5, y=329±5.

3 9300^{0}K color temperature setting

3-a. Set brightness to cutoff and contrast to maximum.

3-b Move cursor on OSD to choose color temperature icon.

3-c. Press [2] key to G gain then adjust G gain = 71 value, then adjust B, R to y=311±5, x=281±5.

3-d Adjust contrast to set y=40±2FL

3-eCheck x=281±5, y=311±5.

4 Full white ABL setting

CONDITION

Display image : full white pattern

4-aSet brightness to cutoff and contrast to maximum.

4-b. Adjust VR 401 to y=28FL ±2FL.

4-c. Check the white balance at 5FL and 28FL.

4-d. Repeat all the procedures in 5-2-2 section until the best white balance is obtained, then power off.

5-2-3 Focus Adjustment

CONDITION

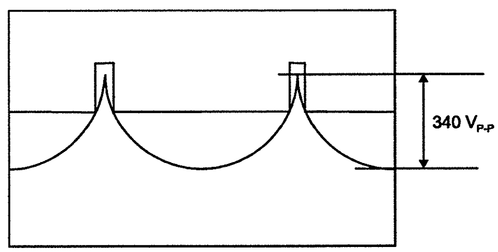
Display image : "e" character pattern

PROCEDURE

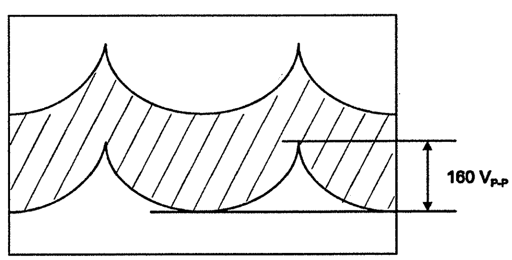
1. Set brightness to cutoff and contrast to maximum.
2. Adjust top VR at T402 (static focus VR) to make vertical line clear.
3. Adjust center VR at T402 (dynamic focus VR) to make horizontal line clear.
4. Repeat above procedures to get best focus.

5-2-4 Dynamic focus Adjustments

1. Horizontal dynamic focus set Hf=340V in phase (compare with video signal).



2. Vertical dynamic focus set Vf=160V in phase.



5-2-5 Static Convergence Adjustments

Static convergence involves alignment of the red, blue and green lines in the center area of the display.

Note : The monitor requires 30 minutes of warm-up time for convergence adjustment.

CONDITION

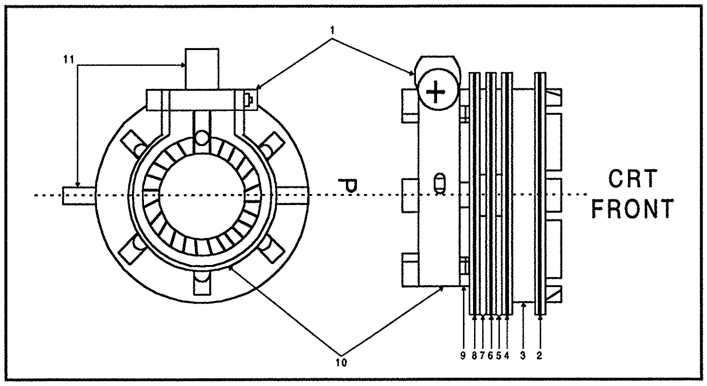
Display image : Crosshatch pattern

Warm-up Time : 30 minutes

PROCEDURE

1. Set brightness and contrast to display a well-defined pattern.
2. Ensure the convergence magnet rings are correctly positioned on the CRT.

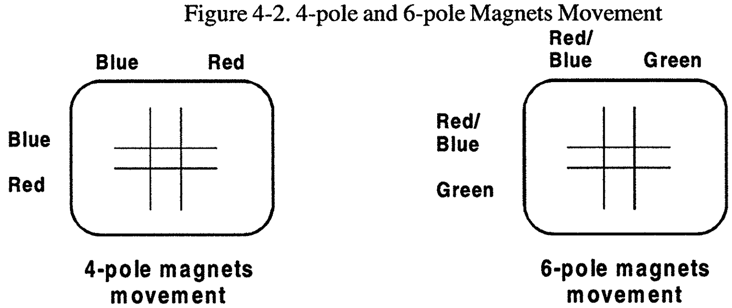
Figure 4-1. Convergence Magnets on the CRT



1) Setup Bolt	2) Bow Magnet	3) Band	4) 2-Pole Magnet
5) Spacer	6) 4-Pole Magnet	7) Spacer	8) 6-Pole Magnet
9) Holder	10) Band	11) Tabs	

3. Rotate the individual rings of 4-pole convergence magnets by changing the spacing between the 2 tabs to converge the vertical red and blue lines at the center of the screen.
4. Rotate the pair of rings of 4-pole convergence magnets by maintaining spacing between the 2 tabs to converge the horizontal red and blue lines at the center of the screen.
5. Rotate the individual rings of 6-pole convergence magnets by changing the spacing between the 2 tabs to converge the vertical red, blue and green lines.
6. Rotate the pair of rings of 6-pole convergence magnets by maintaining spacing between the 2 tabs to converge the horizontal red, blue and green lines.
7. Repeat the steps from 3~6 until the best convergence is obtained.

Figure 4-2. 4-pole and 6-pole Magnets Movement



Note : The 4-pole magnets and the 6-pole magnets interact, making dot movement complex.

5-2-6 Degaussing

Degaussing is required when poor color impurity appears on the screen. This monitor uses an automatic degaussing circuit that is activated when the power is on. The automatic degaussing will be fully functional again after the monitor has been in operation for 20 minutes.

The degaussing effect is confined to the picture tube since the coils are mounted at the back of the tube. Should any part of the chassis or cabinet becomes magnetized, it is necessary to degauss the affected area with a manual degaussing coil.

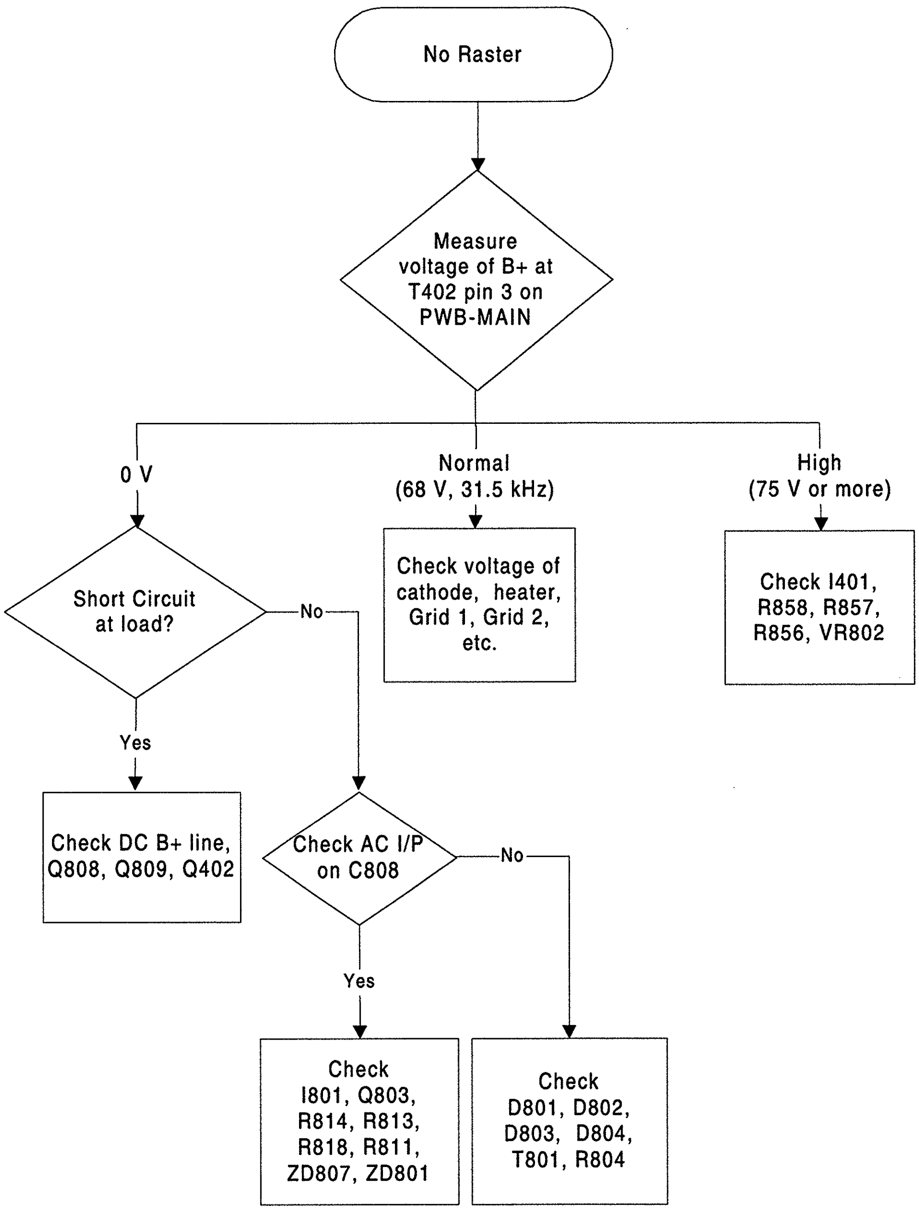
5-2-7 Manual Degaussing

1. Apply line voltage to the degaussing coil and move it in a rotary motion over the front, sides, and top of the monitor. The coil should be kept away from the rear of the monitor to avoid damaging the magnetic neck components.
2. Slowly rotate and move the coil away from the monitor to about 6 feet beyond the point where no effect on the CRT will be noticeable.

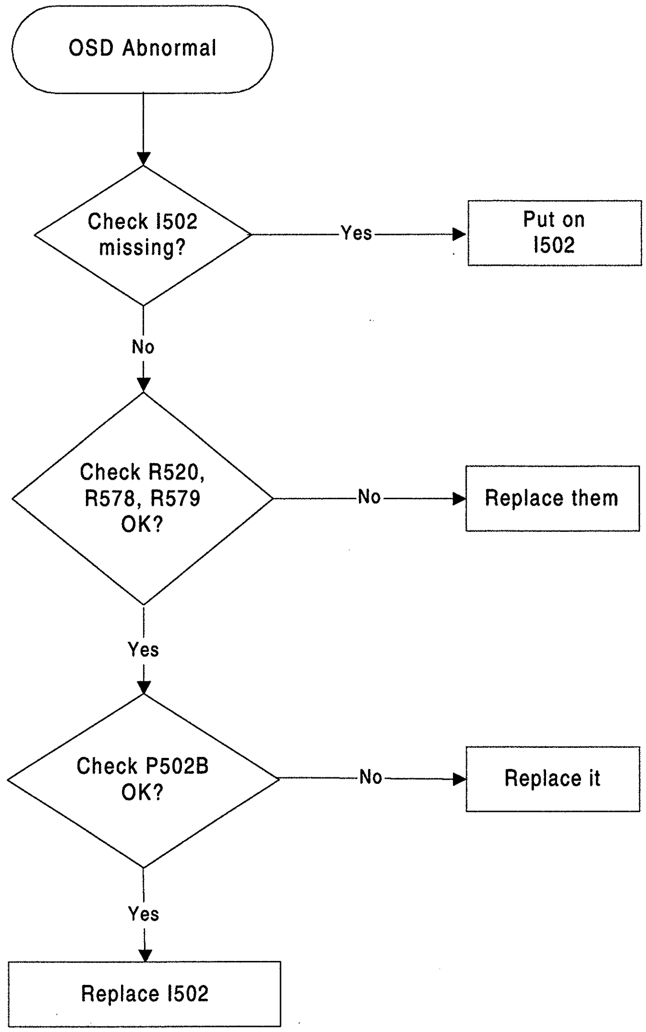
For proper degaussing, it is essential that the field be gradually reduced by moving the coil slowly away from the monitor. The degaussing coil must never be shut off or disconnected while near the monitor, as this would introduce a strong field instead of canceling the effect of the stray fields.

6 Troubleshooting

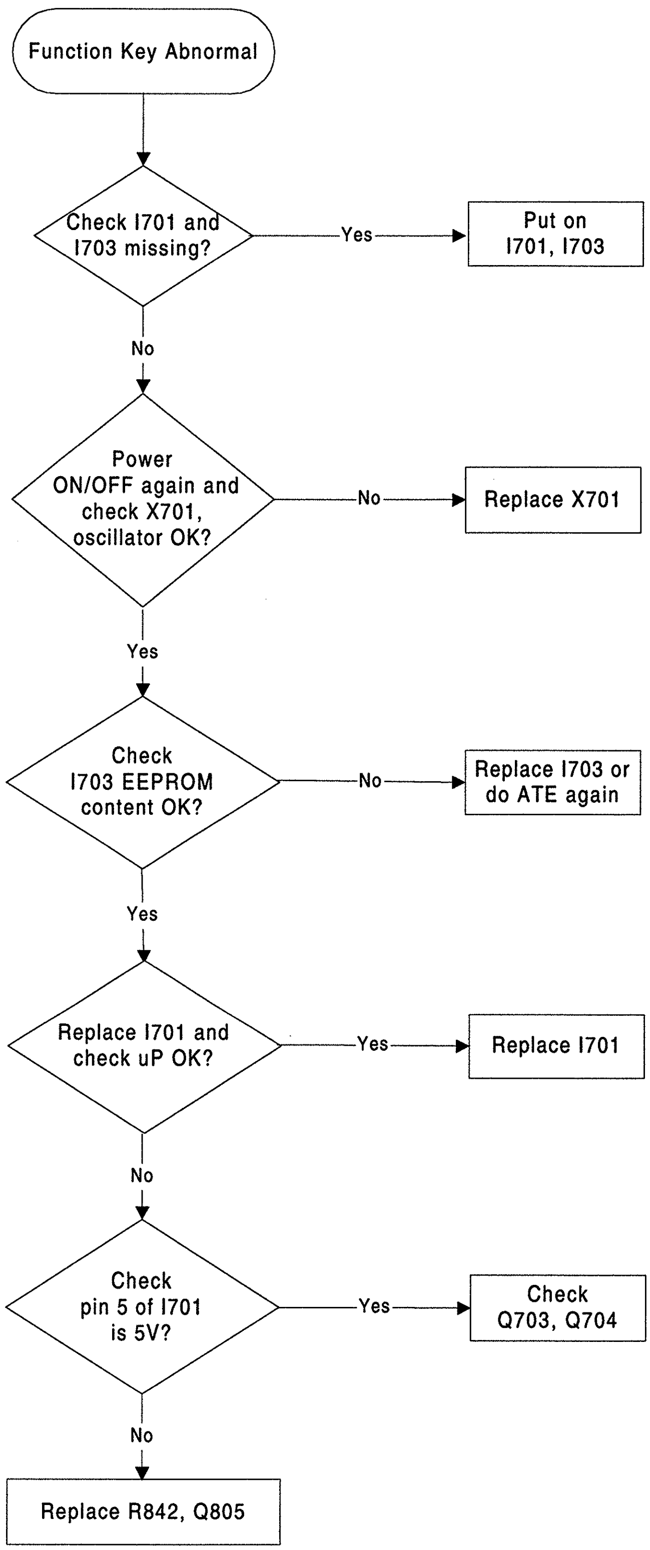
6-1 No Raster



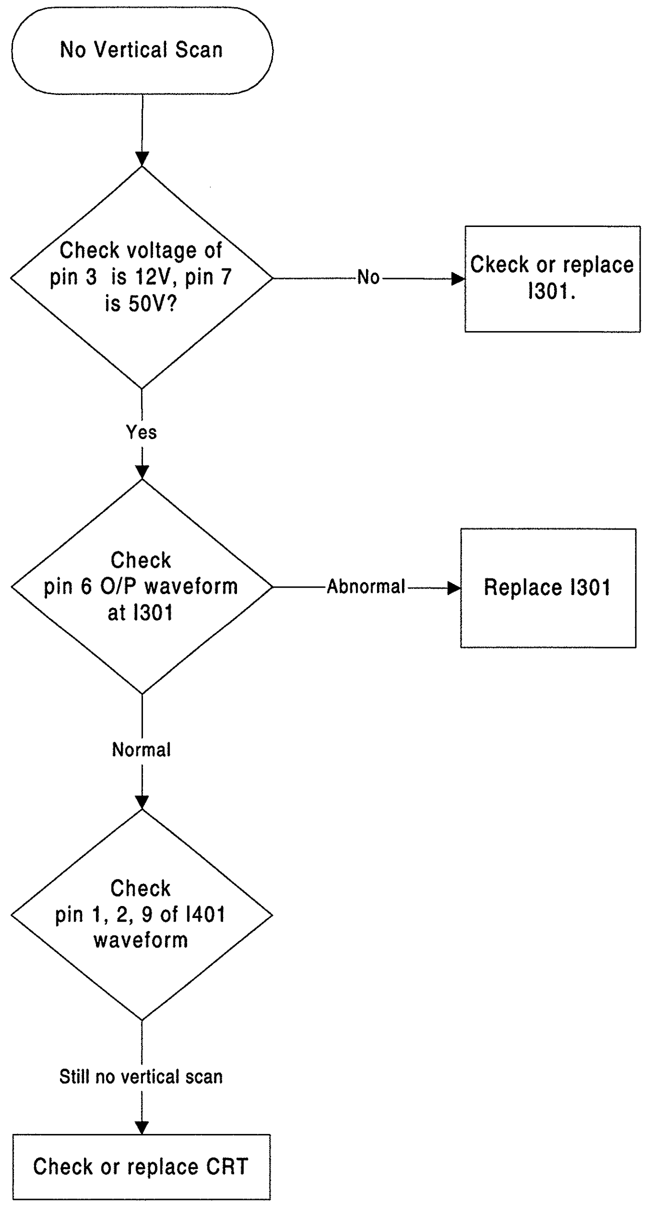
6-2 OSD Abnormal



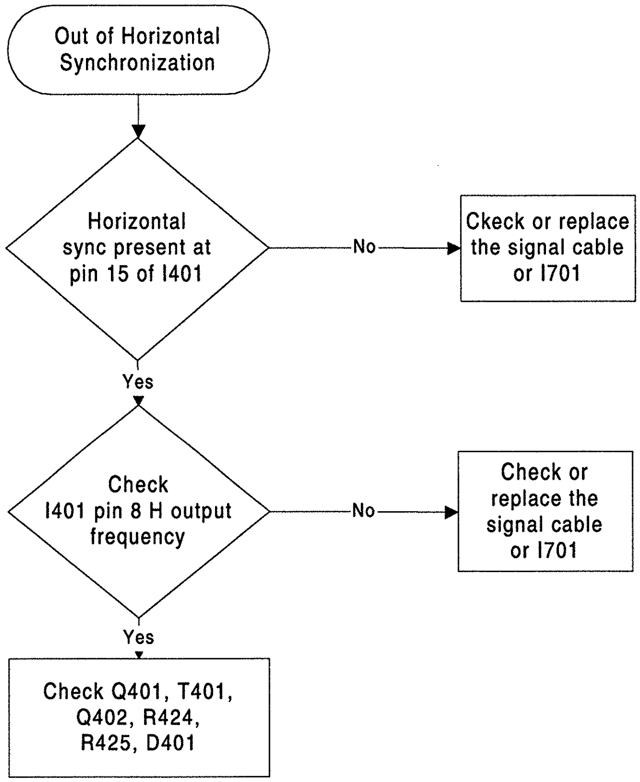
6-3 Function Key Abnormal



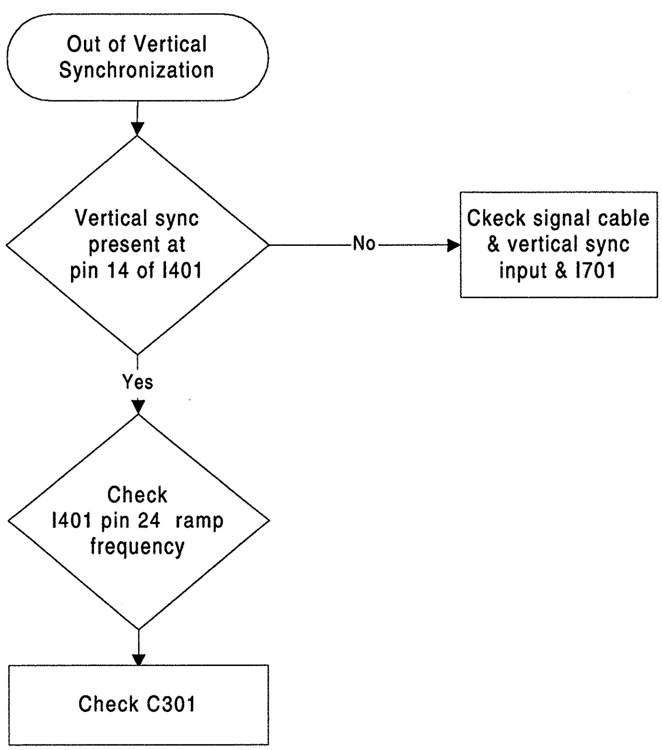
6-4 No Vertical Scan (Raster is one horizontal line)



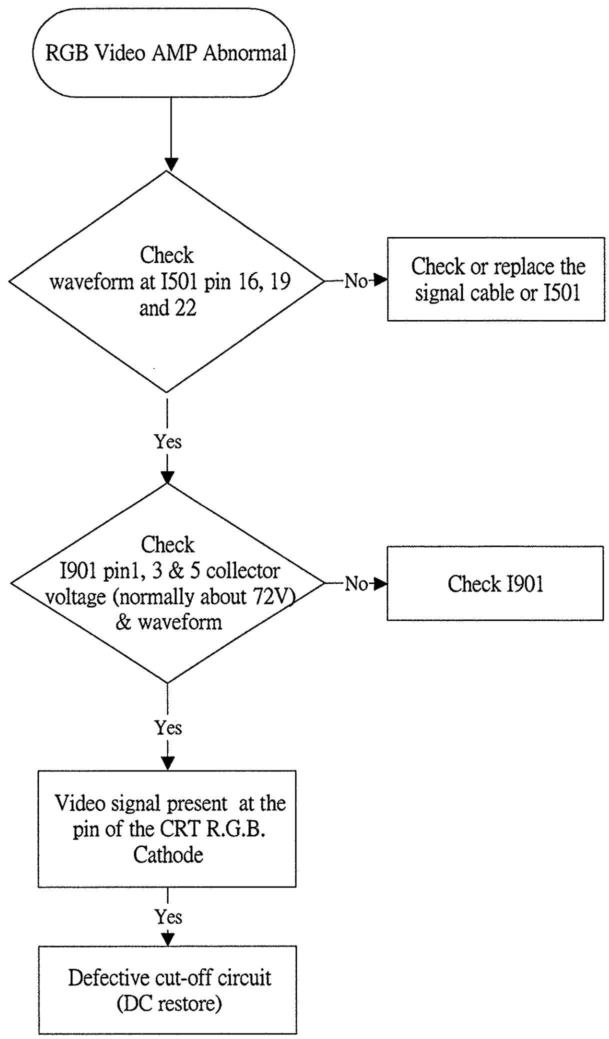
6-5 Out of Horizontal Synchronization



6-6 Out of Vertical Synchronization



6-7 R.G.B. Video Amplifier Abnormal



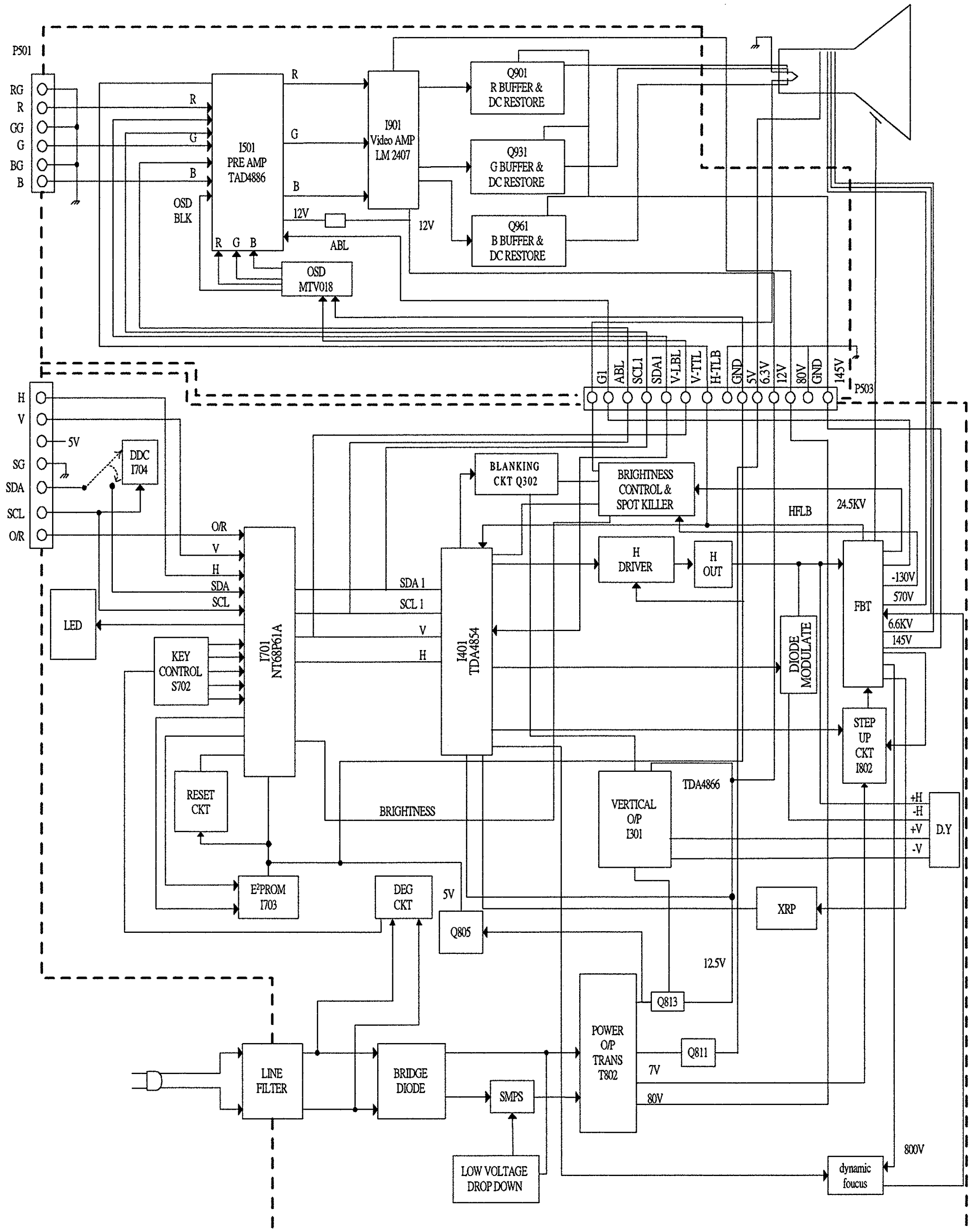
7 Recommended Parts List

Note: The components identified by "⚠" mark are critical for X-ray safety. Replace these with only the same parts specified.

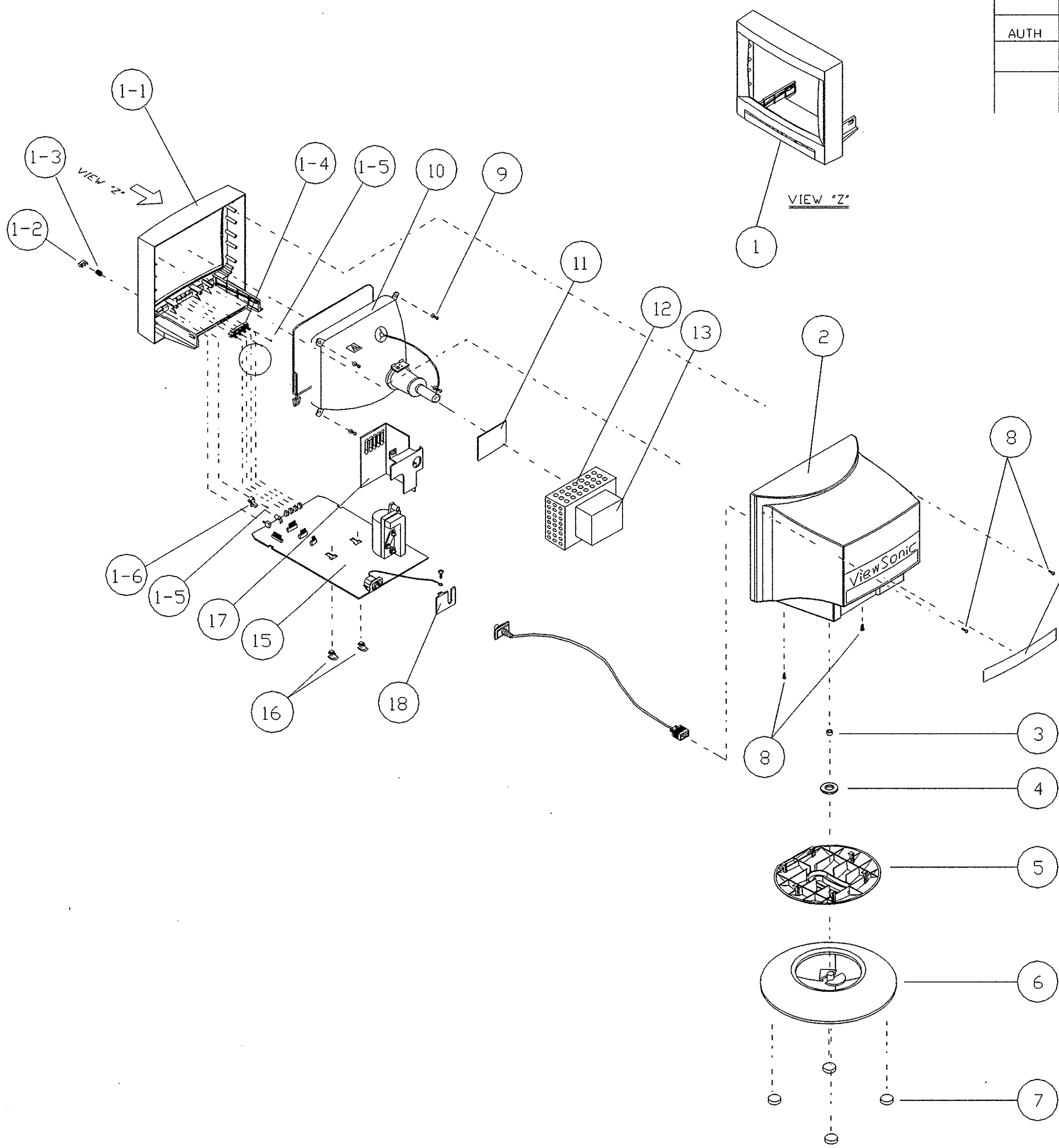
No.	Location	Part Number	Description
1	C417	6326215442	MPP uF 0.15 250V J F P=15 HJC
2	C808	6312622126	ALU uF 220 400V F 85C 25x40
3	D801 D802 D803 D804	6412011307	DIODE 1N5406 T52 3A/600V
4	D814	6412017900	DIODE RL3 3.5A/350V SANKEN
5	D815	6412004117	DIODE UF2004M T52 2A/400V 50nS
6	D820	6412002017	DIODE UF3004M T52 3A/400V 50nS
7 ⚠	F801	6851004050	FUSE TIME LAG 5ST4 4A/250V
8	I301	6442012300	IC TDA4866 9P (PHILIPS)
9	I401	6442020700	IC TDA4854 32P SDIP (PHILIPS)
10	I501	6442021500	IC TDA4886 24P SDIP (PHILIPS)
11	I701	6448012200	IC NT68P61A 40P PDIP OTP NOVAT
12	I703	6448007900	IC 24C04A/P (MICROCHIP)
13	I801	6442006020	IC UC3842BN 8P PDIP (ST)
14	L404	6111504130	COIL CHOKE 5mH K DR10x16 LY3B
15	L405	6119005200	COIL LINEAR TLN-1052
16	L406	6111686131	COIL CHOKE 68uH K DRWW10x16
17	L409	6111105131	COIL CHOKE L=105uH K DRWW16x18
18	Q402	6421004400	TR NPN 2SC5386 (TOSHIBA)
19	Q420 Q421	6426001800	FET N-CHNL IRFS630 TO-220F
20	Q430 Q807	6426006400	FET N-CHNL IRFS630A SAMSUNG
21	Q803	6426006800	FET N-CHNL SSS10N60A SAMSUNG
22 ⚠	R403	6224211024	MF KOHM 11 1/4W F T26
23 ⚠	R404	6224213024	MF KOHM 13 1/4W F T26

No.	Location	Part Number	Description
24 ⚠	R405	6224130114	MF KOHM 3.01 1/8W F T26
25	R803	6203090002	POSISTOR 9 OHM Q 2PINPITCH=10
26	R804	6201100012	THERMISTOR 10 OHM 3A P=7.5 TKS
27	R818	6220327852	FS OHM 0.27 1W J HOR
28	T401	6135000801	XFRMR HOR DRIVE THD-1008A EI19
29	T402	6133070020	FBT TFB-7002 FEA766 SAMPO
30	T801	6138001601	LINE FILTER TLF-1016A 16mHET28
31	T802	6131060700	XFRMER PWR TPW-1065 EE42/15DEI
32	X701	6449000710	CRYSTAL 8MHz TOP8.000 30pF TOP

8 Block Diagram



AUTH	ZONE	LTR	ECO	REVISIONS DESCRIPTION	DATE	APPROVED
				RELEASE FOR PRODUCTION		



ITEM	PART NO.	DESCRIPTION	QTY
1	7737513751	FRONT COVER ASS'Y	1
1-1	7742213701	FRONT COVER	1
1-2	7742802600	POWER KNOB	1
1-3	7740301020	POWER SPRING	1
1-4	7742802590	FUNCTION KEY	1
1-5	7140130081	DOUBLE THREAD SCREW M3X8	3
1-6	7742301510	POWER LED LENS	1
2	7742213750	REAR COVER	1
3	7740200330	RUBBER WASHER	1
4	7742603460	FETTER PLATE	1
5	7740403800	SWIVEL BALL	1
6	7740401041	SWIVEL BASE	1
7	7742001180	RUBBER PAD	4
8	7140140121	SCREW M4X12	4
9	7740200570	CRT SCREW+STAR WASHER	4
10	————	CRT	1
11	5197700635	CRT BOARD	1
12	7746202150	SHIELD COVER	1
13	7742001410	SPONGE, 80X50X35mm	1
14	7735419732	MODEL LABEL	1
15	5197802877	MAIN BOARD	1
16	7742604780	SUPPORT	1
17	7746402110	FBT HEAT SINK	1
18	7748704600	CABLE BRACKET	1

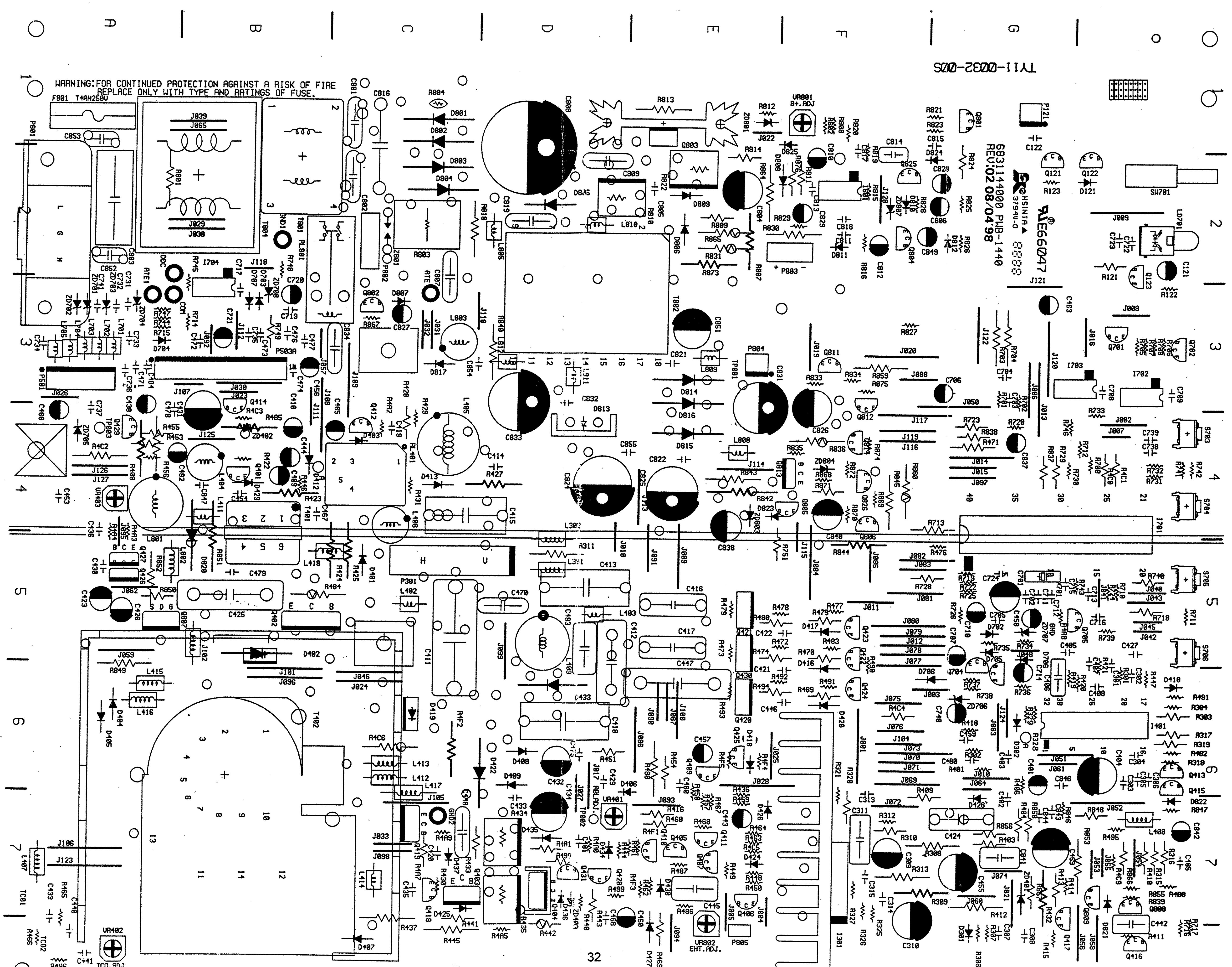
ViewSonic Corporation

TITLE E771-2

A_3 DWG. NO. / PART NO.

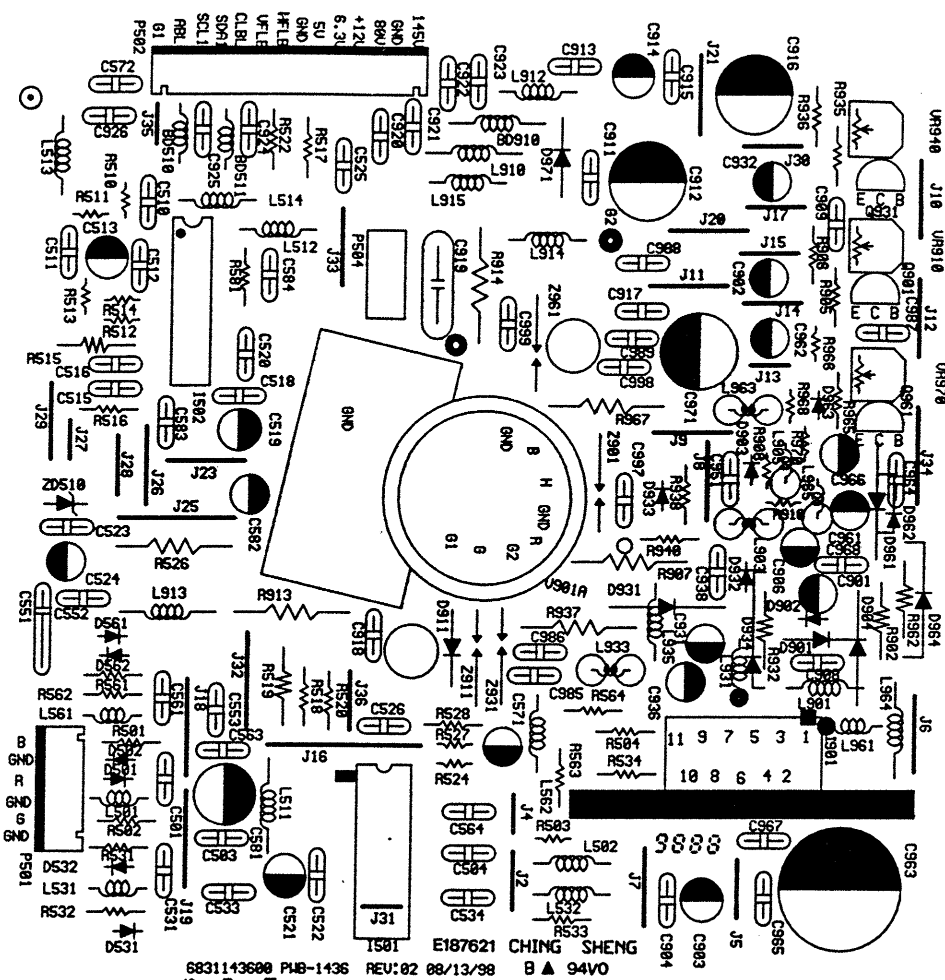
SCALE — SHEET OF

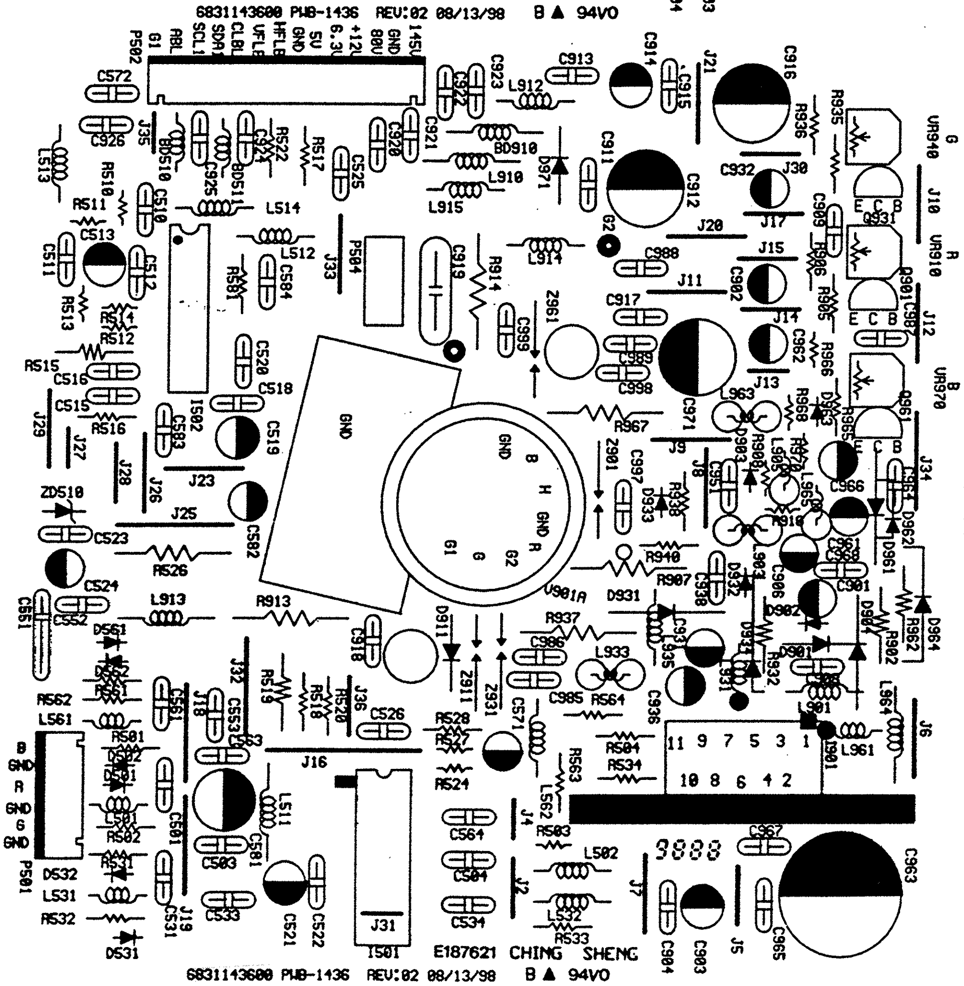
MAIN BOARD



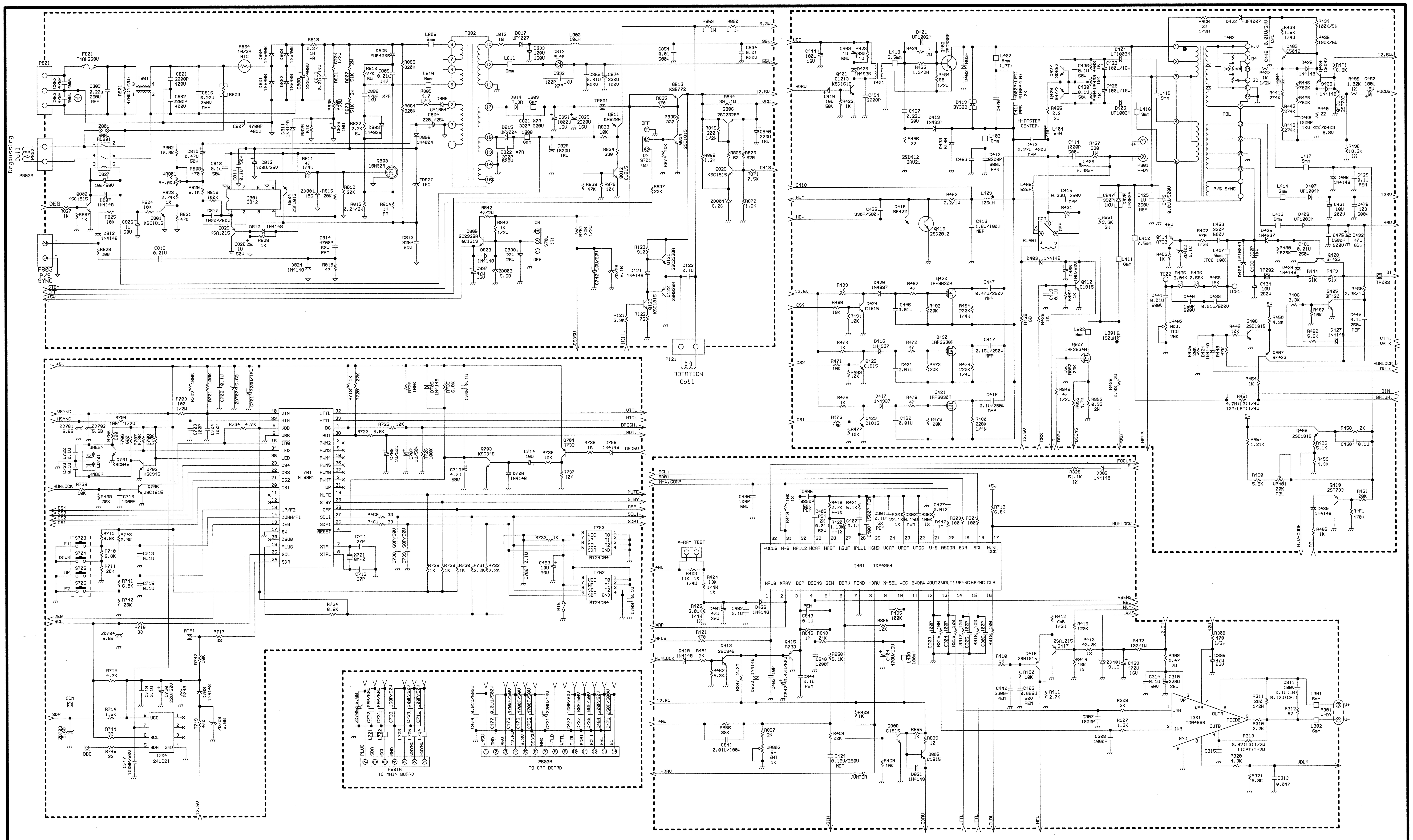
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VIDEO BOARD





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REVISION HISTORY | DATE : | REV. :

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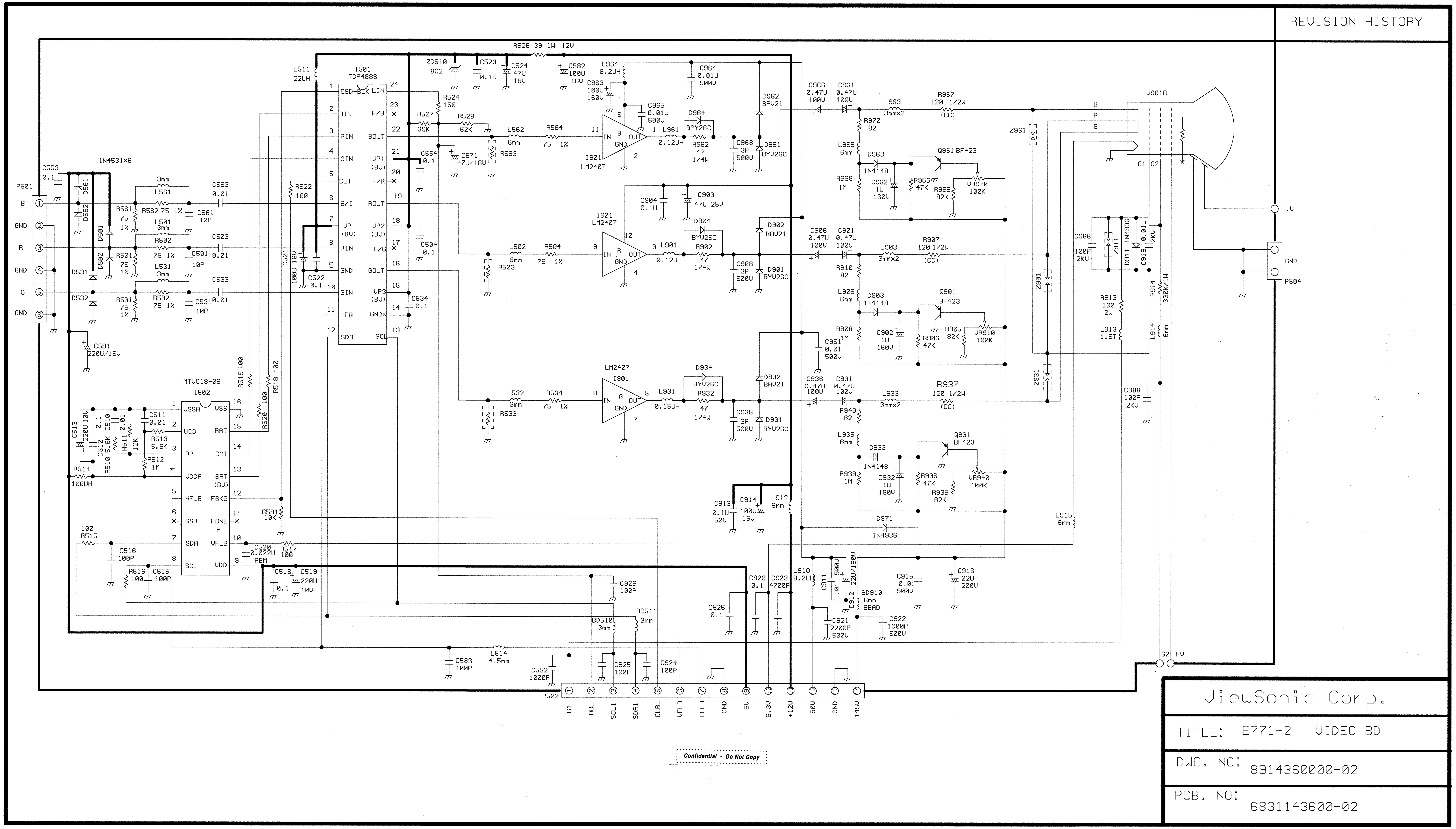
ViewSonic Corp.

TITLE : E771-2

DWG. NO : 8914400000-01 | A1

PCB. NO : 6831144000-03
6831141100-03

SHEET : 1 OF 1



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P/N: 4701503073 Model Name: E771 QTY: 1 U/M: SET

Level	CktId	Grp	APR	Item No.	Description	Drawing No	UM	Usage Qty	B/N	S
1	00000		N	5192201061	CABT-2 VSCA1770NST(92)~U7(C) V		EA	1.00000	B	
.2	V901Q		N	1120000606	TAPE ACETATE CLOTH		M	.00600	N	
.2	01P32		Y	7749000200	PE BAG	8440000038	EA	1.00000	N	
.2	01P94		Y	6881000491	CORE MAG SA626 5x5x0.1		EA	3.00000	N	
.2	01P95		Y	6881000470	CORE MAG 12*3.6*3 13GS		EA	2.00000	N	
.2	02B02		Y	7735418800-0A	X-RAY LABEL CM1785NST/1995NST	8440000270	EA	1.00000	N	
.2	02B07		Y	7735403950	HI-POT OK LABEL ALL MODEL	8340000098	EA	1.00000	N	
.2	02P11		Y	7740100200	WIRING TIES 250X2.5MM	8440000046	EA	1.00000	N	
.2	06B01		N	7737601150-0A	R/C ASS'Y VIEWSONIC #4420	8140000884	EA	1.00000	N	S
.2	08C01		Y	7737701500	S/B ASS'Y VSC1766NSL	8240000756	EA	1.00000	N	S
.2	5C02M		Y	7742001410	SPONGE (CM-1766MCLR)	8440002121	EA	1.00000	N	S
.2	6B01M		Y	7140140161	DOUBLE THREAD SCREW M4X16	8440000090	EA	4.00000	N	
.2	9N035		N	1250000407	JP-888		KG	.00200	N	
.2	9N050		N	1250000600	CLEANER NAPHTHA		L	.00700	N	
.2	9N070		N	1250200100	ADHESIVE SILICONE RUBBER		KG	.00100	N	
1	00000		N	5192302401	BURN-IN VSCA1770NST(92)~U7(C)		EA	1.00000	B	
.2	A0001		N	9051200105-0A	ALIG. SPEC. VSCA1770NST(92)		EA	1.00000	N	
.2	A0002		N	9061200109-0A	INSP. SPEC. VSCA1770NST(92)		EA	1.00000	N	
.2	A0003		N	9042300042-0B	ENGR. SPEC. VSCA1770NST(92)		EA	1.00000	N	
.2	A0004		N	9082000030-0A	PROD. NOTICE A1770NSL/NST		EA	1.00000	N	
.2	A0005		N	9081000116-0A	EDID DATA VSCA1770NST(E771-2)		EA	1.00000	N	
.2	A0016		N	9083000021-00	CPU 6861 F/W A1570/A1770 R1.00		EA	1.00000	N	
.2	00000		N	5192101061	CABT-1 VSCA1770NST(92)~U7(C) V		EA	1.00000	B	
..3	Q403Q		Y	7740100101	CABLE TIES	8440000030	EA	10.00000	N	
..3	Q403R		Y	7740100103	WIRING CABLE TIES	8440000030	EA	4.00000	N	
..3	T402A		Y	6711010181	HRNS 1P 880 1015#22 BLK HS/HOS		EA	1.00000	N	
..3	V901A		Y	6117170090	COIL DEGAUSSING TDG-1709		EA	1.00000	N	S
..3	V901B		N	6710000820	HRNS CRT GND WIRECG808L4W&+2HT		EA	1.00000	N	
..3	V901C		Y	6101170013	COIL ROT 0.2x300T 520 PVC180+T		EA	1.00000	N	
..3	V901D		Y	6711010180	HRNS 1P ORG1650=1007#28/#24=50		EA	1.00000	N	
..3	V901E		N	1120000805	3M Aluminum Tape 1300X30mm	8440002655	EA	1.00000	N	
..3	V901M		Y	7142750301	SCREW+STAR WASHER	8440001884	EA	4.00000	N	
..3	V901O		Y	7742000791	RUBBER CM1564MNCLR/14"	8340000233	EA	3.00000	N	
..3	V901P		Y	7742000790	RUBBER C2/C3	8340000233	EA	3.00000	N	
..3	V901R		N	7742000772	RUBBER (C-3,TVM)	8340000228	EA	2.00000	N	
..3	0P501		Y	6715004417	VIDEO CBL CHG4413LENGTH to1830		EA	1.00000	N	S
..3	0V901	CO	Y	6811172714	CRT M41AGE93X46 C CHUNGHWA		EA	1.00000	N	S
..3	02U02		N	1241000200	DATE CODE LABEL	8340000485	EA	1.00000	N	
..3	05C04		Y	7742604780-0B	PCB SUPPORT	8440002346	EA	2.00000	N	
..3	06F01		Y	7737502751	F/C ASS'Y VSC1766NSL(E771) V.S	8140000634	EA	1.00000	N	S
..3	5C01M		Y	7131440081	SCREW+WASHER M4*8	8440000079	EA	1.00000	N	
.2	00000		N	5195601977	CHASSIS A1770NST(95)#E1(C) LIT		EA	1.00000	B	
..3	P501A		Y	6714010236	HRNS 1P 150 BRAIDED4.3D/TIN5-8		EA	1.00000	N	
..3	P501B		Y	6714010236	HRNS 1P 150 BRAIDED4.3D/TIN5-8		EA	1.00000	N	
..3	T402B		Y	6714010141	HRNS 1P 110 BRAIDED R4.3D/187N		EA	1.00000	N	
..3	T402C		Y	6881002200	CORE MAG W7 T 23x6.4x13.7(NWE)		EA	1.00000	N	
..3	T402D		Y	6881000690	CORE MAG W5 T18.4x14.28x9.6		EA	1.00000	N	
..3	T402Y		N	7742001880	INSULATOR RUBBER 6.5MM	8440002489	EA	1.00000	N	
..3	T402Z		Y	7746201900-0D	FBT COVER (SM-1570NSL)	8340001404	EA	1.00000	N	
..3	00000		N	5196900096	CTRL ASSY A1770NSL#N2 LITEON		EA	1.00000	B	
...4	P801A		Y	6714010035	HRNS 1P 1015#18 CG032CORE&TURN		EA	1.00000	N	
...4	P801C		N	1120000110	TUBING, HEAT-SHRINKING 5D,20MM	8340000405	EA	1.00000	N	

P/N: 4701503073 Model Name: E771 QTY: 1 U/M: SET

Level	CktId	Grp	APR	Item No.	Description	Drawing No	UM	Usage Qty	B/N	S
...4	OP801		Y	6621030071	AC INLET 3P STF309A1-03		EA	1.00000	N	S
...4	9N001		N	1250000143	SOLDER WIRE SUPER		EA	.00450	N	
..3	00000		N	5197700635	CRT BD A1770NSL#N2 LITEON		EA	1.00000	B	
...4	BD510		Y	6881001007	BEAD CORE K5B RH 3.5x3.5x0.8 T		EA	1.00000	N	
...4	BD511		Y	6881001007	BEAD CORE K5B RH 3.5x3.5x0.8 T		EA	1.00000	N	
...4	BD910		Y	6881001507	BEAD CORE W5 RH3.5x6x1.0T		EA	1.00000	N	
...4	I901C		N	1250000520	HEAT SINK COMPOUND		KG	.00001	N	
...4	I901M		Y	7746401920	HEAT SINK	8340001623	EA	1.00000	N	
...4	I901N		Y	7110230101	MACHINE SCREW M3*10	8440000018	EA	1.00000	N	
...4	I901P		Y	1250000415	VA-450 SCREW LOCKING		KG	.00100	N	
...4	U1436		Y	6831143600-02	PCB VIDEO BD PWB-1436		EA	1.00000	N	S
...4	VR910		Y	6246104100	VR,100 KOHM B 0.5W SA		EA	1.00000	N	
...4	VR940		Y	6246104100	VR,100 KOHM B 0.5W SA		EA	1.00000	N	
...4	VR970		Y	6246104100	VR,100 KOHM B 0.5W SA		EA	1.00000	N	
...4	V901A		Y	6623100110	CRT SOCKET 10P HPS0720-011100		EA	1.00000	N	S
...4	ZD510		Y	6414082014	DIODE ZNR BZX79-C8V2-143 T .5W		EA	1.00000	N	
...4	0C501		Y	6331110055	CD pF 10 50V J NPO T		EA	1.00000	N	
...4	0C503		Y	6335110315	CD uF 0.01 50V K Y5P T		EA	1.00000	N	
...4	0C504		Y	6338110485	CD uF 0.1 50V Z Y5V T		EA	1.00000	N	
...4	0C510		Y	6335110315	CD uF 0.01 50V K Y5P T		EA	1.00000	N	
...4	0C511		Y	6335110315	CD uF 0.01 50V K Y5P T		EA	1.00000	N	
...4	0C512		Y	6338110485	CD uF 0.1 50V Z Y5V T		EA	1.00000	N	
...4	0C513		Y	6311122145	ALU uF 220 10V T 105C 6.3x11		EA	1.00000	N	
...4	0C515		Y	6335110115	CD pF 100 50V K Y5P T		EA	1.00000	N	
...4	0C516		Y	6335110115	CD pF 100 50V K Y5P T		EA	1.00000	N	
...4	0C518		Y	6338110485	CD uF 0.1 50V Z Y5V T		EA	1.00000	N	
...4	0C519		Y	6311122145	ALU uF 220 10V T 105C 6.3x11		EA	1.00000	N	
...4	0C520		Y	6335110115	CD pF 100 50V K Y5P T		EA	1.00000	N	
...4	0C521		Y	6311210145	ALU uF 100 16V T 105C 6.3x11		EA	1.00000	N	
...4	0C522		Y	6338110485	CD uF 0.1 50V Z Y5V T		EA	1.00000	N	
...4	0C523		Y	6338110485	CD uF 0.1 50V Z Y5V T		EA	1.00000	N	
...4	0C524		Y	6311247045	ALU uF 47 16V T 105C 5x11		EA	1.00000	N	
...4	0C525		Y	6338110485	CD uF 0.1 50V Z Y5V T		EA	1.00000	N	
...4	0C531		Y	6331110055	CD pF 10 50V J NPO T		EA	1.00000	N	
...4	0C533		Y	6335110315	CD uF 0.01 50V K Y5P T		EA	1.00000	N	
...4	0C534		Y	6338110485	CD uF 0.1 50V Z Y5V T		EA	1.00000	N	
...4	0C552		Y	6338510115	CD pF 100 1000V K X7R T		EA	1.00000	N	
...4	0C553		Y	6338110485	CD uF 0.1 50V Z Y5V T		EA	1.00000	N	
...4	0C561		Y	6331110055	CD pF 10 50V J NPO T		EA	1.00000	N	
...4	0C563		Y	6335110315	CD uF 0.01 50V K Y5P T		EA	1.00000	N	
...4	0C564		Y	6338110485	CD uF 0.1 50V Z Y5V T		EA	1.00000	N	
...4	0C571		Y	6311247045	ALU uF 47 16V T 105C 5x11		EA	1.00000	N	
...4	0C581		Y	6311122145	ALU uF 220 10V T 105C 6.3x11		EA	1.00000	N	
...4	0C583		Y	6335110115	CD pF 100 50V K Y5P T		EA	1.00000	N	
...4	0C901		Y	6312147845	ALU uF 0.47 100V T 105C 5x11		EA	1.00000	N	
...4	0C902		Y	6312201045	ALU uF 1 160V T 105C 5x11		EA	1.00000	N	
...4	0C903		Y	6311347045	ALU uF 47 25V T 105C 5x11		EA	1.00000	N	
...4	0C904		Y	6338110485	CD uF 0.1 50V Z Y5V T		EA	1.00000	N	
...4	0C906		Y	6312147845	ALU uF 0.47 100V T 105C 5x11		EA	1.00000	N	
...4	0C908		Y	6332130935	CD pF 3 500V D NPO T(+/-.5pF)		EA	1.00000	N	
...4	0C911		Y	6336410305	CD uF 0.01 500V M Z5U T		EA	1.00000	N	
...4	0C912		Y	6312222005	ALU uF 22 160V T 85C 10x20		EA	1.00000	N	

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Level	CktId	Grp	APR	Item No.	Description	Drawing No	UM	Usage Qty	B/N	S
...4	0C913		Y	6338110485	CD uF 0.1 50V Z Y5V T		EA	1.00000	N	
...4	0C914		Y	6311310145	ALU uF 100 25V T 105C 6.3x11		EA	1.00000	N	
...4	0C915		Y	6336410305	CD uF 0.01 500V M Z5U T		EA	1.00000	N	
...4	0C916		Y	6312322002	??ALU uF 22 200V F 85C 10x20		EA	1.00000	N	
...4	0C919		Y	6336610302	CD uF 0.01 2000V M Z5U F P=10		EA	1.00000	N	
...4	0C920		Y	6338110485	CD uF 0.1 50V Z Y5V T		EA	1.00000	N	
...4	0C921		Y	6335422215	CD pF 2200 500V K Y5P T		EA	1.00000	N	
...4	0C922		Y	6335410215	CD pF 1000 500V K Y5P T		EA	1.00000	N	
...4	0C923	S0	Y	6335447215	CD pF 4700 500V K Y5P T		EA	1.00000	N	
...4	0C923	S1	Y	6335447212	CD pF 4700 500V K Y5P F P=5		EA	1.00000	N	
...4	0C931		Y	6312147845	ALU uF 0.47 100V T 105C 5x11		EA	1.00000	N	
...4	0C932		Y	6312201045	ALU uF 1 160V T 105C 5x11		EA	1.00000	N	
...4	0C936		Y	6312147845	ALU uF 0.47 100V T 105C 5x11		EA	1.00000	N	
...4	0C938		Y	6332130935	CD pF 3 500V D NPO T(+/-.5pF)		EA	1.00000	N	
...4	0C951		Y	6336410305	CD uF 0.01 500V M Z5U T		EA	1.00000	N	
...4	0C961		Y	6312147845	ALU uF 0.47 100V T 105C 5x11		EA	1.00000	N	
...4	0C962		Y	6312201045	ALU uF 1 160V T 105C 5x11		EA	1.00000	N	
...4	0C963		Y	6312210102	ALU uF 100 160V F 85C 16x25		EA	1.00000	N	
...4	0C964		Y	6336410305	CD uF 0.01 500V M Z5U T		EA	1.00000	N	
...4	0C965		Y	6336410305	CD uF 0.01 500V M Z5U T		EA	1.00000	N	
...4	0C966		Y	6312147845	ALU uF 0.47 100V T 105C 5x11		EA	1.00000	N	
...4	0C968		Y	6332130935	CD pF 3 500V D NPO T(+/-.5pF)		EA	1.00000	N	
...4	0C985		Y	6335147212	CD pF 4700 50V K Y5P F P=5		EA	1.00000	N	
...4	0C986		Y	6335610115	CD pF 100 2000V K Y5P T		EA	1.00000	N	
...4	0C987		Y	6336410305	CD uF 0.01 500V M Z5U T		EA	1.00000	N	
...4	0C988		Y	6335610115	CD pF 100 2000V K Y5P T		EA	1.00000	N	
...4	0D501		Y	6412015504	DIODE 1N4531 T-77 T26 (ROHM)		EA	1.00000	N	
...4	0D502		Y	6412015504	DIODE 1N4531 T-77 T26 (ROHM)		EA	1.00000	N	
...4	0D531		Y	6412015504	DIODE 1N4531 T-77 T26 (ROHM)		EA	1.00000	N	
...4	0D532		Y	6412015504	DIODE 1N4531 T-77 T26 (ROHM)		EA	1.00000	N	
...4	0D561		Y	6412015504	DIODE 1N4531 T-77 T26 (ROHM)		EA	1.00000	N	
...4	0D562		Y	6412015504	DIODE 1N4531 T-77 T26 (ROHM)		EA	1.00000	N	
...4	0D901		Y	6412014307	DIODE BYV26C,113 T52 SOD-57		EA	1.00000	N	
...4	0D902		Y	6412009704	DIODE BAV21,143 .25A/200V 50nS		EA	1.00000	N	
...4	0D903		Y	6412001704	DIODE 1N4148 T26 NS		EA	1.00000	N	
...4	0D904		Y	6412014307	DIODE BYV26C,113 T52 SOD-57		EA	1.00000	N	
...4	0D911		Y	6412011604	DIODE 1N4936 T26 1A/400V LITE		EA	1.00000	N	
...4	0D931		Y	6412014307	DIODE BYV26C,113 T52 SOD-57		EA	1.00000	N	
...4	0D932		Y	6412009704	DIODE BAV21,143 .25A/200V 50nS		EA	1.00000	N	
...4	0D933		Y	6412001704	DIODE 1N4148 T26 NS		EA	1.00000	N	
...4	0D934		Y	6412014307	DIODE BYV26C,113 T52 SOD-57		EA	1.00000	N	
...4	0D961		Y	6412014307	DIODE BYV26C,113 T52 SOD-57		EA	1.00000	N	
...4	0D962		Y	6412009704	DIODE BAV21,143 .25A/200V 50nS		EA	1.00000	N	
...4	0D963		Y	6412001704	DIODE 1N4148 T26 NS		EA	1.00000	N	
...4	0D964		Y	6412014307	DIODE BYV26C,113 T52 SOD-57		EA	1.00000	N	
...4	0D971		Y	6412011604	DIODE 1N4936 T26 1A/400V LITE		EA	1.00000	N	
...4	0I501		Y	6442021500	IC TDA4886 24P SDIP (PHILIPS)		EA	1.00000	N	
...4	0I502		Y	6444003800	IC MTV018N-08 16P PDIP (MYSON)		EA	1.00000	N	
...4	0I901		Y	6442022600	IC LM2407 11P TO-220 NS		EA	1.00000	N	
...4	0J002		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J004		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J005		Y	6700060000	JUMPER WIRE		KG	.00009	N	

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Level	CktId	Grp	APR	Item No.	Description	Drawing No	UM	Usage Qty	B/N	S
...4	0J006		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J007		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J008		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J009		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J010		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J011		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J012		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J013		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J014		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J015		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J016		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J017		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J018		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J019		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J020		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J021		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J023		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J025		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J026		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J027		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J028		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J029		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J030		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J031		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J032		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J033		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J034		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J035		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J036		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0L501		Y	6881001007	BEAD CORE K5B RH 3.5x3.5x0.8 T		EA	1.00000	N	
...4	0L502		Y	6881001507	BEAD CORE W5 RH3.5x6x1.0T		EA	1.00000	N	
...4	0L511		Y	6115220104	COIL PEAKING 22uH K T26		EA	1.00000	N	
...4	0L512		Y	6881001007	BEAD CORE K5B RH 3.5x3.5x0.8 T		EA	1.00000	N	
...4	0L513		Y	6881001507	BEAD CORE W5 RH3.5x6x1.0T		EA	1.00000	N	
...4	0L514		Y	6881001507	BEAD CORE W5 RH3.5x6x1.0T		EA	1.00000	N	
...4	0L531		Y	6881001007	BEAD CORE K5B RH 3.5x3.5x0.8 T		EA	1.00000	N	
...4	0L532		Y	6881001507	BEAD CORE W5 RH3.5x6x1.0T		EA	1.00000	N	
...4	0L561		Y	6881001007	BEAD CORE K5B RH 3.5x3.5x0.8 T		EA	1.00000	N	
...4	0L562		Y	6881001507	BEAD CORE W5 RH3.5x6x1.0T		EA	1.00000	N	
...4	0L901		Y	6115128107	COIL PEAKING 0.12 uH K T52		EA	1.00000	N	
...4	0L903		Y	6881005800	BEAD CORE C8B RH3.5x4.5x1(W)x2		EA	1.00000	N	
...4	0L905		Y	6881001507	BEAD CORE W5 RH3.5x6x1.0T		EA	1.00000	N	
...4	0L910		Y	6881001507	BEAD CORE W5 RH3.5x6x1.0T		EA	1.00000	N	
...4	0L912		Y	6881001507	BEAD CORE W5 RH3.5x6x1.0T		EA	1.00000	N	
...4	0L913		Y	6881002731	CORE BEAD C8B R6H6x10(A)+W0.5T		EA	1.00000	N	
...4	0L914		Y	6881001507	BEAD CORE W5 RH3.5x6x1.0T		EA	1.00000	N	
...4	0L915		Y	6881001507	BEAD CORE W5 RH3.5x6x1.0T		EA	1.00000	N	
...4	0L931		Y	6115158107	COIL PEAKING 0.15uH K T52		EA	1.00000	N	
...4	0L933		Y	6881005800	BEAD CORE C8B RH3.5x4.5x1(W)x2		EA	1.00000	N	
...4	0L935		Y	6881001507	BEAD CORE W5 RH3.5x6x1.0T		EA	1.00000	N	
...4	0L961		Y	6115128107	COIL PEAKING 0.12 uH K T52		EA	1.00000	N	
...4	0L963		Y	6881005800	BEAD CORE C8B RH3.5x4.5x1(W)x2		EA	1.00000	N	

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...4	0L964		Y	6881001507	BEAD CORE W5 RH3.5x6x1.0T		EA	1.00000	N	
...4	0L965		Y	6881001507	BEAD CORE W5 RH3.5x6x1.0T		EA	1.00000	N	
...4	0P501		Y	6611060020	PLUG 6P JWT-A2501WV2-6P/JST-XH		EA	1.00000	N	
...4	0P502		Y	6611140021	PLUG 14P 2.5 JWT-A2501WV2-14P		EA	1.00000	N	
...4	0P504		Y	6614020010	WAFER 2P RTB-1.5-2(JH-15002)		EA	1.00000	N	
...4	0Q901	S0	Y	6424002215	TR PNP HBF423T/B TO-92 TAPING		EA	1.00000	N	
...4	0Q901	S1	Y	6424000025	TR PNP BF423(TPE2) (TOSHIBA)		EA	1.00000	B	
...4	0Q931	S0	Y	6424002215	TR PNP HBF423T/B TO-92 TAPING		EA	1.00000	N	
...4	0Q931	S1	Y	6424000025	TR PNP BF423(TPE2) (TOSHIBA)		EA	1.00000	B	
...4	0Q961	S0	Y	6424002215	TR PNP HBF423T/B TO-92 TAPING		EA	1.00000	N	
...4	0Q961	S1	Y	6424000025	TR PNP BF423(TPE2) (TOSHIBA)		EA	1.00000	B	
...4	0R501		Y	6224175094	MF OHM 75.0 1/8W F T26		EA	1.00000	N	
...4	0R502		Y	6224175094	MF OHM 75.0 1/8W F T26		EA	1.00000	N	
...4	0R504		Y	6224175094	MF OHM 75.0 1/8W F T26		EA	1.00000	N	
...4	0R510		Y	6212156254	CF KOHM 5.6 1/4W J T26 MINI		EA	1.00000	N	
...4	0R511		Y	6212112354	CF KOHM 12 1/4W J T26 MINI		EA	1.00000	N	
...4	0R512		Y	6212110554	CF MOHM 1 1/4W J T26 MINI		EA	1.00000	N	
...4	0R513		Y	6212156254	CF KOHM 5.6 1/4W J T26 MINI		EA	1.00000	N	
...4	0R514		Y	6115101104	COIL PEAKING 100 uH K T26		EA	1.00000	N	
...4	0R515		Y	6212110154	CF OHM 100 1/4W J T26 MINI		EA	1.00000	N	
...4	0R516		Y	6212110154	CF OHM 100 1/4W J T26 MINI		EA	1.00000	N	
...4	0R517		Y	6212110154	CF OHM 100 1/4W J T26 MINI		EA	1.00000	N	
...4	0R518		Y	6212110154	CF OHM 100 1/4W J T26 MINI		EA	1.00000	N	
...4	0R519		Y	6212110154	CF OHM 100 1/4W J T26 MINI		EA	1.00000	N	
...4	0R520		Y	6212110154	CF OHM 100 1/4W J T26 MINI		EA	1.00000	N	
...4	0R522		Y	6212110154	CF OHM 100 1/4W J T26 MINI		EA	1.00000	N	
...4	0R524		Y	6212115154	CF OHM 150 1/4W J T26 MINI		EA	1.00000	N	
...4	0R526		Y	6221139052	MOF OHM 39 1W J HOR		EA	1.00000	N	
...4	0R527		Y	6212139354	CF KOHM 39 1/4W J T26 MINI		EA	1.00000	N	
...4	0R528		Y	6212162354	CF KOHM 62 1/4W J T26 MINI		EA	1.00000	N	
...4	0R531		Y	6224175094	MF OHM 75.0 1/8W F T26		EA	1.00000	N	
...4	0R532		Y	6224175094	MF OHM 75.0 1/8W F T26		EA	1.00000	N	
...4	0R534		Y	6224175094	MF OHM 75.0 1/8W F T26		EA	1.00000	N	
...4	0R561		Y	6224175094	MF OHM 75.0 1/8W F T26		EA	1.00000	N	
...4	0R562		Y	6224175094	MF OHM 75.0 1/8W F T26		EA	1.00000	N	
...4	0R564		Y	6224175094	MF OHM 75.0 1/8W F T26		EA	1.00000	N	
...4	0R581		Y	6212110354	CF KOHM 10 1/4W J T26 MINI		EA	1.00000	N	
...4	0R902		Y	6212247054	CF OHM 47 1/4W J T26		EA	1.00000	N	
...4	0R905		Y	6212182354	CF KOHM 82 1/4W J T26 MINI		EA	1.00000	N	
...4	0R906		Y	6212147354	CF KOHM 47 1/4W J T26 MINI		EA	1.00000	N	
...4	0R907		Y	6212312157	CF , OHM,120 ,1/2W,J,AT52		EA	1.00000	N	
...4	0R908		Y	6212110554	CF MOHM 1 1/4W J T26 MINI		EA	1.00000	N	
...4	0R910		Y	6212182054	CF OHM 82 1/4W J T26 MINI		EA	1.00000	N	
...4	0R913		Y	6221210152	MOF OHM 100 2W J HOR		EA	1.00000	N	
...4	0R914		Y	6221133452	MOF KOHM 330 1W J HOR		EA	1.00000	N	
...4	0R932		Y	6212247054	CF OHM 47 1/4W J T26		EA	1.00000	N	
...4	0R935		Y	6212182354	CF KOHM 82 1/4W J T26 MINI		EA	1.00000	N	
...4	0R936		Y	6212147354	CF KOHM 47 1/4W J T26 MINI		EA	1.00000	N	
...4	0R937		Y	6212312157	CF , OHM,120 ,1/2W,J,AT52		EA	1.00000	N	
...4	0R938		Y	6212110554	CF MOHM 1 1/4W J T26 MINI		EA	1.00000	N	
...4	0R940		Y	6212182054	CF OHM 82 1/4W J T26 MINI		EA	1.00000	N	
...4	0R962		Y	6212247054	CF OHM 47 1/4W J T26		EA	1.00000	N	

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Level	CktId	Grp	APR	Item No.	Description	Drawing No	UM	Usage Qty	B/N	S
...4	0R965		Y	6212182354	CF KOHM 82 1/4W J T26 MINI		EA	1.00000	N	
...4	0R966		Y	6212147354	CF KOHM 47 1/4W J T26 MINI		EA	1.00000	N	
...4	0R967		Y	6212312157	CF , OHM,120 ,1/2W,J,AT52		EA	1.00000	N	
...4	0R968		Y	6212110554	CF MOHM 1 1/4W J T26 MINI		EA	1.00000	N	
...4	0R970		Y	6212182054	CF OHM 82 1/4W J T26 MINI		EA	1.00000	N	
...4	02U01		N	1241000200	DATE CODE LABEL	8340000485	EA	1.00000	N	
...4	9N050		N	1250000100	SOLDER BAR, ADEPTO S63A		KG	.00600	N	
...4	9N055		N	1250000141	SOLDER WIRE 1.2M/M		KG	.00100	N	
...4	9N060		N	1250000130	SOLDER WIRE, ADEPO S60A		KG	.00100	N	
...4	9N065		N	1250000220	FLUX A324		GL	.00400	N	
...4	9N070		N	1250000320	THINNER 16-3552X		GL	.00200	N	
...4	9N075		N	1250000143	SOLDER WIRE SUPER		EA	.00100	N	
..3	00000		N	5197802877	MAIN BD A1770NST(95)#E1(C) LIT		EA	1.00000	B	
...4	D419C		N	1250000520	HEAT SINK COMPOUND		KG	.00001	N	
...4	D419M		Y	7110230101	MACHINE SCREW M3*10	8440000018	EA	1.00000	N	
...4	D419N		Y	7740200400	FLANGE HEX NUT	8440002047	EA	1.00000	N	
...4	D813M		N	7746401270-0D	HEAT SINK CM1465MLR/CM1565MCLR	8440001739	EA	1.00000	N	
...4	F801A		Y	6622050010	FUSE CLIP FC-04 FOR D=5MM FUSE		EA	2.00000	N	
...4	I301C		N	1250000520	HEAT SINK COMPOUND		KG	.00001	N	
...4	I301M		N	7111230101	MACHINE SCREW M3x10	8440001648	EA	2.00000	N	
...4	I301N		Y	7746401960	HEAT SINK (A1454&A1554)	8440002718	EA	1.00000	N	
...4	I301P		Y	1250000415	VA-450 SCREW LOCKING		KG	.00200	N	
...4	I701A		Y	6626400010	IC SOCKET 40P 8300-40AT00		EA	1.00000	N	
...4	I703A		Y	6626080010	IC SOCKET 8P 8300-08AT00		EA	1.00000	N	
...4	LD701	S0	Y	6418001400	LED LTL-30EDJHA 5DIA & HOLDER		EA	1.00000	N	
...4	LD701	S1	Y	6418001420	LED LA59DG/GYW002 Y/G		EA	1.00000	N	
...4	P501A		Y	6611070062	PLUG 7P 2.5 JWT-A2501WV2-7P		EA	1.00000	N	
...4	P503A		Y	6711140052	HRNS 14P 250 1007#24 2530/2520		EA	1.00000	N	
...4	P801I		Y	7740200370	RIVET P1438 IBM	8440000760	EA	1.00000	N	
...4	P801L		Y	7740200370	RIVET P1438 IBM	8440000760	EA	1.00000	N	
...4	Q402C		N	1250000520	HEAT SINK COMPOUND		KG	.00001	N	
...4	Q402M		Y	7110230101	MACHINE SCREW M3*10	8440000018	EA	1.00000	N	
...4	Q402N		Y	7740200400	FLANGE HEX NUT	8440002047	EA	1.00000	N	
...4	Q404M		N	7746402090	heat sink	8440002816	EA	1.00000	N	
...4	Q404N		Y	7110230081	MACHINE SCREW M3*8	8440000018	EA	1.00000	N	
...4	Q404P		Y	7740200400	FLANGE HEX NUT	8440002047	EA	1.00000	N	
...4	Q419C		N	1250000520	HEAT SINK COMPOUND		KG	.00001	N	
...4	Q419M		Y	7110230101	MACHINE SCREW M3*10	8440000018	EA	1.00000	N	
...4	Q419N		Y	7740200400	FLANGE HEX NUT	8440002047	EA	1.00000	N	
...4	Q803C		N	1250000520	HEAT SINK COMPOUND		KG	1.00000	N	
...4	Q803M		Y	7746401880	HEAT SINK	8440002563	EA	1.00000	N	
...4	Q803N		Y	7110230101	MACHINE SCREW M3*10	8440000018	EA	1.00000	N	
...4	Q803P		Y	1250000415	VA-450 SCREW LOCKING		KG	.00100	N	
...4	Q807C		N	1250000520	HEAT SINK COMPOUND		KG	.00001	N	
...4	Q807M		Y	7110230101	MACHINE SCREW M3*10	8440000018	EA	1.00000	N	
...4	Q807N		Y	7740200400	FLANGE HEX NUT	8440002047	EA	1.00000	N	
...4	RL401	S0	Y	6854000170	RELAY LZ-12HE(TAKAMISAWA)		EA	1.00000	N	
...4	RL401	S1	Y	6854000190	RELAY OUDH-SS-112D 12V OEG		EA	1.00000	N	
...4	RL801	S0	Y	6854000161	RELAY OSA-SS-206DM5(OEG)6V88mA		EA	1.00000	N	S
...4	RL801	S1	Y	6854000220	RELAY G5PA-2 DC6V OMRON		EA	1.00000	N	S
...4	SW701		Y	6853004200	SW PUSH SPPJ22NE01-UE FORWARD		EA	1.00000	B	S
...4	TP002		Y	6631010030	TEST PIN TT-1 YEL, CM1560M/17"		EA	1.00000	N	

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Level	CktId	Grp	APR	Item No.	Description	Drawing No	UM	Usage Qty	B/N	S
...4	TP003		Y	6631010030	TEST PIN TT-1 YEL, CM1560M/17"		EA	1.00000	N	
...4	T402M		Y	7140130101	DOUBLE THREAD SCREW M3*10	8440000090	EA	3.00000	N	
...4	T402N		N	7746402110-0B	FBT HEAT SINK (A1770NSL)	8240000879	EA	1.00000	N	
...4	U1440		N	6831144000-03	PCB MAIN BD PWB-1440		EA	1.00000	N	S
...4	VR401		Y	6242203010	VR KOHM 20 0.1W TA B 6D F		EA	1.00000	N	
...4	VR402		Y	6242203001	VR,KOHM, 20,0.1 W,TA,B, 6D,F		EA	1.00000	B	
...4	VR403		Y	6242103001	VR,KOHM, 10,0.1 W,TA,B, 6D,F		EA	1.00000	B	
...4	VR801		Y	6242102001	VR,KOHM, 1,0.1 W,TA,B, 6D,F		EA	1.00000	B	
...4	VR802		Y	6242102001	VR,KOHM, 1,0.1 W,TA,B, 6D,F		EA	1.00000	B	
...4	X701A		Y	6524025016	WIRE 1007 #24 BLU 25MM 6/6		EA	1.00000	N	
...4	ZD401		Y	6414091084	DIODE ZNR MTZJ T-77 9.1C 0.5W		EA	1.00000	N	
...4	ZD402		Y	6414091084	DIODE ZNR MTZJ T-77 9.1C 0.5W		EA	1.00000	N	
...4	ZD403		Y	6414068034	DIODE ZNR MTZJ T-77 6.8C T26		EA	1.00000	N	
...4	ZD701		Y	6414056014	DIODE ZNR MTZJ T-77 5.6B T26		EA	1.00000	N	
...4	ZD702		Y	6414056014	DIODE ZNR MTZJ T-77 5.6B T26		EA	1.00000	N	
...4	ZD703		Y	6414056014	DIODE ZNR MTZJ T-77 5.6B T26		EA	1.00000	N	
...4	ZD704		Y	6414056014	DIODE ZNR MTZJ T-77 5.6B T26		EA	1.00000	N	
...4	ZD705		Y	6414056014	DIODE ZNR MTZJ T-77 5.6B T26		EA	1.00000	N	
...4	ZD706		Y	6414051024	DIODE ZNR MTZJ T-77 5.1B T26		EA	1.00000	N	
...4	ZD707		Y	6414056014	DIODE ZNR MTZJ T-77 5.6B T26		EA	1.00000	N	
...4	ZD708		Y	6414056014	DIODE ZNR MTZJ T-77 5.6B T26		EA	1.00000	N	
...4	ZD801		Y	6414180004	DIODE ZNR MTZJ T-77 18C T26		EA	1.00000	N	
...4	ZD803		Y	6414056014	DIODE ZNR MTZJ T-77 5.6B T26		EA	1.00000	N	
...4	ZD804		Y	6414062024	DIODE ZNR MTZJ T-77 6.2C DO-34		EA	1.00000	N	
...4	ZD807		Y	6414180004	DIODE ZNR MTZJ T-77 18C T26		EA	1.00000	N	
...4	0ATE1		Y	6631010020	TEST PIN 1P 2.36MM		EA	1.00000	N	
...4	0C122		Y	6338110485	CD uF 0.1 50V Z Y5V T		EA	1.00000	N	
...4	0C301		Y	6357110455	PEM uF 0.1 50V J T		EA	1.00000	N	
...4	0C302		Y	6356115455	MEM uF 0.15 50V J T		EA	1.00000	N	
...4	0C303		Y	6335110115	CD pF 100 50V K Y5P T		EA	1.00000	N	
...4	0C304		Y	6335110115	CD pF 100 50V K Y5P T		EA	1.00000	N	
...4	0C305		Y	6335110115	CD pF 100 50V K Y5P T		EA	1.00000	N	
...4	0C306		Y	6335110115	CD pF 100 50V K Y5P T		EA	1.00000	N	
...4	0C307		Y	6335110215	CD pF 1000 50V K Y5P T		EA	1.00000	N	
...4	0C308		Y	6335110215	CD pF 1000 50V K Y5P T		EA	1.00000	N	
...4	0C309		Y	6311647045	ALU uF 47 63V T 105C 8x12		EA	1.00000	N	
...4	0C310		Y	6311322145	ALU uF 220 25V T 105C 10x12.5		EA	1.00000	N	
...4	0C311	CO	Y	6321112455	MEF uF 0.12 100V J T		EA	1.00000	N	
...4	0C311	CA	Y	6321110455	MEF uF 0.1 100V J T		EA	1.00000	N	
...4	0C313		Y	6357147355	PEM uF 0.047 50V J T		EA	1.00000	N	
...4	0C314		Y	6338110485	CD uF 0.1 50V Z Y5V T		EA	1.00000	N	
...4	0C401		Y	6311447045	ALU uF 47 35V T 105C 6.3x11		EA	1.00000	N	
...4	0C402		Y	6338110485	CD uF 0.1 50V Z Y5V T		EA	1.00000	N	
...4	0C403		Y	6331110055	CD pF 10 50V J NPO T		EA	1.00000	N	
...4	0C404		Y	6311247145	ALU uF 470 16V T 105C 10x12.5		EA	1.00000	N	
...4	0C405		Y	6357168255	PEM,pF, 6800, 50V,J,T		EA	1.00000	N	
...4	0C406		Y	6357110355	PEM uF 0.01 50V J T		EA	1.00000	N	
...4	0C407		Y	6338110485	CD uF 0.1 50V Z Y5V T		EA	1.00000	N	
...4	0C408		Y	6357115255	PEM pF 1500 50V J T		EA	1.00000	N	
...4	0C409		Y	6311510045	ALU uF 10 50V T 105C 5x11		EA	1.00000	N	
...4	0C410		Y	6311510045	ALU uF 10 50V T 105C 5x11		EA	1.00000	N	
...4	0C411	CO	Y	6325449252	PPS uF 0.0049 2000V J F P=27.5		EA	1.00000	N	

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Level	CktId	Grp	APR	Item No.	Description	Drawing No	UM	Usage Qty	B/N	S
...4	0C411	CA	Y	6325451252	PPS uF 0.0051 2000V J F P=27.5		EA	1.00000	N	
...4	0C412		Y	6322582252	PPN uF 0.0082 800V J F P=15		EA	1.00000	B	
...4	0C413		Y	6326327442	MPP uF 0.27 400V J F P=22.5HJC		EA	1.00000	N	
...4	0C414		Y	6338410215	CD pF 1000 500V K X7R T		EA	1.00000	N	
...4	0C415		Y	6326233442	MPP uF 0.33 250V J F P=15 HJC		EA	1.00000	N	
...4	0C416		Y	6326210442	MPP uF 0.1 250V J F P=15 HJC		EA	1.00000	N	
...4	0C417		Y	6326215442	MPP uF 0.15 250V J F P=15 HJC		EA	1.00000	N	
...4	0C418		Y	6321118552	MEF uF 1.8 100V J F P=22.5		EA	1.00000	N	
...4	0C419		Y	6338110485	CD uF 0.1 50V Z Y5V T		EA	1.00000	N	
...4	0C421		Y	6335110315	CD uF 0.01 50V K Y5P T		EA	1.00000	N	
...4	0C422		Y	6335110315	CD uF 0.01 50V K Y5P T		EA	1.00000	N	
...4	0C423		Y	6311210145	ALU uF 100 16V T 105C 6.3x11		EA	1.00000	N	
...4	0C424		Y	6321215452	MEF uF 0.15 250V J F P=15		EA	1.00000	N	
...4	0C425		Y	6321210552	MEF,uF,1 , 250V,J,F,P=20MM		EA	1.00000	N	
...4	0C426		Y	6311210145	ALU uF 100 16V T 105C 6.3x11		EA	1.00000	N	
...4	0C427		Y	6357112355	PEM uF 0.012 50V J T		EA	1.00000	N	
...4	0C429		Y	6357110455	PEM uF 0.1 50V J T		EA	1.00000	N	
...4	0C430		Y	6338110485	CD uF 0.1 50V Z Y5V T		EA	1.00000	N	
...4	0C431		Y	6312310045	ALU uF 10 200V T 105C 10x16		EA	1.00000	N	
...4	0C432		Y	6311647045	ALU uF 47 63V T 105C 8x12		EA	1.00000	N	
...4	0C433		Y	6335533115	CD pF 330 1000V Y5P K T		EA	1.00000	N	
...4	0C434		Y	6312410045	ALU uF 10 250V T 105C 10x16		EA	1.00000	N	
...4	0C435		Y	6338433115	CD pF 330 500V K X7R T		EA	1.00000	N	
...4	0C436		Y	6338110485	CD uF 0.1 50V Z Y5V T		EA	1.00000	N	
...4	0C439		Y	6336410305	CD uF 0.01 500V M Z5U T		EA	1.00000	N	
...4	0C440		Y	6332975055	CD pF 75 500V J SL T		EA	1.00000	N	
...4	0C441		Y	6336410305	CD uF 0.01 500V M Z5U T		EA	1.00000	N	
...4	0C442		Y	6357133255	PEM uF 0.0033 50V J T		EA	1.00000	N	
...4	0C444		Y	6311210145	ALU uF 100 16V T 105C 6.3x11		EA	1.00000	N	
...4	0C445		Y	6321210452	MEF uF 0.1 250V J F P=10		EA	1.00000	B	
...4	0C446		Y	6335110315	CD uF 0.01 50V K Y5P T		EA	1.00000	N	
...4	0C447		Y	6326247441	MPP uF 0.47 250V J F P=20 HJC		EA	1.00000	N	
...4	0C448		Y	6336610302	CD uF 0.01 2000V M Z5U F P=10		EA	1.00000	N	
...4	0C450		Y	6311210145	ALU uF 100 16V T 105C 6.3x11		EA	1.00000	N	
...4	0C453		Y	6335433115	CD pF 330 500V K Y5P F P=5		EA	1.00000	N	
...4	0C454		Y	6338122215	CD pF 2200 50V K X7R T		EA	1.00000	N	
...4	0C460		Y	6338110485	CD uF 0.1 50V Z Y5V T		EA	1.00000	N	
...4	0C463		Y	6311510045	ALU uF 10 50V T 105C 5x11		EA	1.00000	N	
...4	0C465		Y	6311510045	ALU uF 10 50V T 105C 5x11		EA	1.00000	N	
...4	0C466		Y	6311122145	ALU uF 220 10V T 105C 6.3x11		EA	1.00000	N	
...4	0C467		Y	6356122455	MEM,uF,0.22 , 50V,J,T		EA	1.00000	N	
...4	0C468		Y	6336510205	CD pF 1000 1000V M Z5U T		EA	1.00000	N	
...4	0C469		Y	6311247145	ALU uF 470 16V T 105C 10x12.5		EA	1.00000	N	
...4	0C471		Y	6331968055	CD pF 68 50V J SL T		EA	1.00000	N	
...4	0C472		Y	6331910155	CD pF 100 50V J SL T		EA	1.00000	N	
...4	0C473		Y	6335147215	CD pF 4700 50V K Y5P T		EA	1.00000	N	
...4	0C474		Y	6336410305	CD uF 0.01 500V M Z5U T		EA	1.00000	N	
...4	0C475		Y	6335415215	CD pF 1500 500V K Y5P T		EA	1.00000	N	
...4	0C476		Y	6335147215	CD pF 4700 50V K Y5P T		EA	1.00000	N	
...4	0C477		Y	6336410305	CD uF 0.01 500V M Z5U T		EA	1.00000	N	
...4	0C478		Y	6336410305	CD uF 0.01 500V M Z5U T		EA	1.00000	N	
...4	0C479		Y	6336410305	CD uF 0.01 500V M Z5U T		EA	1.00000	N	

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Level	CktId	Grp	APR	Item No.	Description	Drawing No	UM	Usage Qty	B/N	S
...4	0C480		Y	6331910155	CD pF 100 50V J SL T		EA	1.00000	N	
...4	0C481		Y	6321210355	MEF uF 0.01 250V J T		EA	1.00000	B	
...4	0C484		Y	6335110115	CD pF 100 50V K Y5P T		EA	1.00000	N	
...4	0C485		Y	6357168355	PEM uF 0.068 50V J T		EA	1.00000	N	
...4	0C701		Y	6311222145	ALU uF 220 16V T 105C 8x12		EA	1.00000	N	
...4	0C702		Y	6338110485	CD uF 0.1 50V Z Y5V T		EA	1.00000	N	
...4	0C703		Y	6335110115	CD pF 100 50V K Y5P T		EA	1.00000	N	
...4	0C704		Y	6335110115	CD pF 100 50V K Y5P T		EA	1.00000	N	
...4	0C705		Y	6338110485	CD uF 0.1 50V Z Y5V T		EA	1.00000	N	
...4	0C706		Y	6311501045	ALU uF 1 50V T 105C 5x11		EA	1.00000	N	
...4	0C707		Y	6311501045	ALU uF 1 50V T 105C 5x11		EA	1.00000	N	
...4	0C708		Y	6338110485	CD uF 0.1 50V Z Y5V T		EA	1.00000	N	
...4	0C709		Y	6338110485	CD uF 0.1 50V Z Y5V T		EA	1.00000	N	
...4	0C710		Y	6311547945	ALU uF 4.7 50V T 105C 5x11		EA	1.00000	N	
...4	0C711		Y	6331127055	CD pF 27 50V J NPO T		EA	1.00000	N	
...4	0C712		Y	6331127055	CD pF 27 50V J NPO T		EA	1.00000	N	
...4	0C713		Y	6335110115	CD pF 100 50V K Y5P T		EA	1.00000	N	
...4	0C714		Y	6311510045	ALU uF 10 50V T 105C 5x11		EA	1.00000	N	
...4	0C715		Y	6335110115	CD pF 100 50V K Y5P T		EA	1.00000	N	
...4	0C716		Y	6335110215	CD pF 1000 50V K Y5P T		EA	1.00000	N	
...4	0C717		Y	6335110215	CD pF 1000 50V K Y5P T		EA	1.00000	N	
...4	0C719		Y	6338110485	CD uF 0.1 50V Z Y5V T		EA	1.00000	N	
...4	0C720		Y	6311522045	ALU uF 22 50V T 105C 5x11		EA	1.00000	N	
...4	0C721		Y	6311122145	ALU uF 220 10V T 105C 6.3x11		EA	1.00000	N	
...4	0C722		Y	6338110485	CD uF 0.1 50V Z Y5V T		EA	1.00000	N	
...4	0C723		Y	6338110485	CD uF 0.1 50V Z Y5V T		EA	1.00000	N	
...4	0C731		Y	6331968055	CD pF 68 50V J SL T		EA	1.00000	N	
...4	0C732		Y	6331968055	CD pF 68 50V J SL T		EA	1.00000	N	
...4	0C733		Y	6331915155	CD pF 150 50V J SL T		EA	1.00000	N	
...4	0C734		Y	6331910155	CD pF 100 50V J SL T		EA	1.00000	N	
...4	0C735		Y	6335147215	CD pF 4700 50V K Y5P T		EA	1.00000	N	
...4	0C736		Y	6331968055	CD pF 68 50V J SL T		EA	1.00000	N	
...4	0C737		Y	6331968055	CD pF 68 50V J SL T		EA	1.00000	N	
...4	0C738		Y	6331968055	CD pF 68 50V J SL T		EA	1.00000	N	
...4	0C739		Y	6331968055	CD pF 68 50V J SL T		EA	1.00000	N	
...4	0C740		Y	6311510045	ALU uF 10 50V T 105C 5x11		EA	1.00000	N	
...4	0C801	S1	Y	6302122212	CD pF 2200 400V M F 7.5 Y P/O		EA	1.00000	N	S
...4	0C801	S0	Y	6302122272	CD pF 2200 400V M F 7.5 SY MAT		EA	1.00000	N	S
...4	0C801	S2	Y	6302122202	CD pF 2200 400V M F 7.5 Y MUR		EA	1.00000	N	S
...4	0C802	S1	Y	6302122212	CD pF 2200 400V M F 7.5 Y P/O		EA	1.00000	N	S
...4	0C802	S0	Y	6302122272	CD pF 2200 400V M F 7.5 SY MAT		EA	1.00000	N	S
...4	0C802	S2	Y	6302122202	CD pF 2200 400V M F 7.5 Y MUR		EA	1.00000	N	S
...4	0C803	S0	Y	6328222409	X2MEF uF 0.22 250V M P=22.5MEC		EA	1.00000	B	S
...4	0C803	S1	Y	6328722409	X2MPP uF 0.22 275V M P=22.5TEA		EA	1.00000	N	S
...4	0C804		Y	6311322145	ALU uF 220 25V T 105C 10x12.5		EA	1.00000	N	
...4	0C805		Y	6338547115	CD pF 470 1000V K X7R T		EA	1.00000	N	
...4	0C806		Y	6311501045	ALU uF 1 50V T 105C 5x11		EA	1.00000	N	
...4	0C807	S0	Y	6302447242	CD pF 4700 400V M F 10 SY1 MAT		EA	1.00000	N	S
...4	0C807	S1	Y	6302447232	CD pF 4700 400V M F 10 SY1 TDK		EA	1.00000	N	S
...4	0C808		Y	6312622126	ALU uF 220 400V F 85C 25x40		EA	1.00000	N	S
...4	0C809		Y	6336510302	CD uF 0.01 1000V M Z5U F P=10		EA	1.00000	N	
...4	0C810		Y	6311547845	ALU uF 0.47 50V T 105C 5x11		EA	1.00000	N	

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Level	CktId	Grp	APR	Item No.	Description	Drawing No	UM	Usage Qty	B/N	S
...4	0C811		Y	6338110485	CD uF 0.1 50V Z Y5V T		EA	1.00000	N	
...4	0C812		Y	6311310145	ALU uF 100 25V T 105C 6.3x11		EA	1.00000	N	
...4	0C813		Y	6335182115	CD pF 820 50V K Y5P T		EA	1.00000	N	
...4	0C814		Y	6357147255	PEM,pF, 4700, 50V,J,T		EA	1.00000	N	
...4	0C815		Y	6335110315	CD uF 0.01 50V K Y5P T		EA	1.00000	N	
...4	0C816	S0	Y	6328222409	X2MEF uF 0.22 250V M P=22.5MEC		EA	1.00000	B	S
...4	0C816	S1	Y	6328722409	X2MPP uF 0.22 275V M P=22.5TEA		EA	1.00000	N	S
...4	0C817		Y	6335110215	CD pF 1000 50V K Y5P T		EA	1.00000	N	
...4	0C818		Y	6338110485	CD uF 0.1 50V Z Y5V T		EA	1.00000	N	
...4	0C819		Y	6336510302	CD uF 0.01 1000V M Z5U F P=10		EA	1.00000	N	
...4	0C821		Y	6338433115	CD pF 330 500V K X7R T		EA	1.00000	N	
...4	0C822		Y	6338433115	CD pF 330 500V K X7R T		EA	1.00000	N	
...4	0C824		Y	6312133142	ALU uF 330 100V F 105C 16x25		EA	1.00000	N	
...4	0C825		Y	6311222242	ALU uF 2200 16V F 105C 13x25		EA	1.00000	N	
...4	0C826		Y	6311210245	ALU uF 1000 16V T 105C 10x20		EA	1.00000	N	
...4	0C827		Y	6311510045	ALU uF 10 50V T 105C 5x11		EA	1.00000	N	
...4	0C828		Y	6311501045	ALU uF 1 50V T 105C 5x11		EA	1.00000	N	
...4	0C829		Y	6311510045	ALU uF 10 50V T 105C 5x11		EA	1.00000	N	
...4	0C832		Y	6338510115	CD pF 100 1000V K X7R T		EA	1.00000	N	
...4	0C833		Y	6312210142	ALU uF 100 160V F 105C 16x25		EA	1.00000	N	
...4	0C834		Y	6335410312	CD uF 0.01 500V K Y5P F P=10		EA	1.00000	N	
...4	0C837		Y	6311247045	ALU uF 47 16V T 105C 5x11		EA	1.00000	N	
...4	0C838		Y	6311322045	ALU uF 22 25V T 105C 5x11		EA	1.00000	N	
...4	0C840		Y	6311222145	ALU uF 220 16V T 105C 8x12		EA	1.00000	N	
...4	0C841		Y	6321110352	MEF uF 0.01 100V J F P=7.5		EA	1.00000	N	
...4	0C842		Y	6311547845	ALU uF 0.47 50V T 105C 5x11		EA	1.00000	N	
...4	0C843		Y	6357110455	PEM uF 0.1 50V J T		EA	1.00000	N	
...4	0C844		Y	6357110455	PEM uF 0.1 50V J T		EA	1.00000	N	
...4	0C846		Y	6335110215	CD pF 1000 50V K Y5P T		EA	1.00000	N	
...4	0C847		Y	6338533115	CD pF 330 1000V K X7R T		EA	1.00000	N	
...4	0C851		Y	6311210245	ALU uF 1000 16V T 105C 10x20		EA	1.00000	N	
...4	0C852	S0	Y	6302147112	CD pF 470 400V K F 7.5 Y P/O		EA	1.00000	N	S
...4	0C852	S1	Y	6302147172	CD pF 470 400V K F 7.5 SY MAT		EA	1.00000	N	S
...4	0C853	S0	Y	6302147112	CD pF 470 400V K F 7.5 Y P/O		EA	1.00000	N	S
...4	0C853	S1	Y	6302147172	CD pF 470 400V K F 7.5 SY MAT		EA	1.00000	N	S
...4	0C854		Y	6336410305	CD uF 0.01 500V M Z5U T		EA	1.00000	N	
...4	0C855		Y	6336410305	CD uF 0.01 500V M Z5U T		EA	1.00000	N	
...4	0D121		Y	6412001704	DIODE 1N4148 T26 NS		EA	1.00000	N	
...4	0D302		Y	6412001704	DIODE 1N4148 T26 NS		EA	1.00000	N	
...4	0D401		Y	6412004334	DIODE UF1002M T26 1A/100V 50nS		EA	1.00000	N	
...4	0D402		Y	6412016600	DIODE RQ3F 3A/1500V (SANKEN)		EA	1.00000	N	
...4	0D403		Y	6412001704	DIODE 1N4148 T26 NS		EA	1.00000	N	
...4	0D404		Y	6412006314	DIODE UF1003M T26 1A/200V 50nS		EA	1.00000	N	
...4	0D405		Y	6412006314	DIODE UF1003M T26 1A/200V 50nS		EA	1.00000	N	
...4	0D406		Y	6412001704	DIODE 1N4148 T26 NS		EA	1.00000	N	
...4	0D407		Y	6412003614	DIODE UF1004M T26 1A/400V LITE		EA	1.00000	N	
...4	0D408		Y	6412006314	DIODE UF1003M T26 1A/200V 50nS		EA	1.00000	N	
...4	0D409		Y	6412003614	DIODE UF1004M T26 1A/400V LITE		EA	1.00000	N	
...4	0D410		Y	6412001704	DIODE 1N4148 T26 NS		EA	1.00000	N	
...4	0D412		Y	6412009704	DIODE BAV21,143 .25A/200V 50nS		EA	1.00000	N	
...4	0D413		Y	6412011404	DIODE 1N4937 T26 1A/600V LITE		EA	1.00000	N	
...4	0D416		Y	6412011404	DIODE 1N4937 T26 1A/600V LITE		EA	1.00000	N	

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Level	CktId	Grp	APR	Item No.	Description	Drawing No	UM	Usage Qty	B/N	S
...4	0D417		Y	6412011404	DIODE 1N4937 T26 1A/600V LITE		EA	1.00000	N	
...4	0D419		Y	6412017810	DIODE BY329X-1500S PHILIPS		EA	1.00000	N	
...4	0D420		Y	6412011404	DIODE 1N4937 T26 1A/600V LITE		EA	1.00000	N	
...4	0D422		Y	6412001934	DIODE FUF4007AMP T26 1A/1KV		EA	1.00000	N	
...4	0D424		Y	6412001704	DIODE 1N4148 T26 NS		EA	1.00000	N	
...4	0D425		Y	6412001704	DIODE 1N4148 T26 NS		EA	1.00000	N	
...4	0D427		Y	6412001704	DIODE 1N4148 T26 NS		EA	1.00000	N	
...4	0D428		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0D429		Y	6412011604	DIODE 1N4936 T26 1A/400V LITE		EA	1.00000	N	
...4	0D430		Y	6412001704	DIODE 1N4148 T26 NS		EA	1.00000	N	
...4	0D433		Y	6412000520	DIODE RL4A 3A/600V 50nS SANKEN		EA	1.00000	N	
...4	0D434		Y	6412001704	DIODE 1N4148 T26 NS		EA	1.00000	N	
...4	0D435		Y	6412011404	DIODE 1N4937 T26 1A/600V LITE		EA	1.00000	N	
...4	0D436		Y	6412001704	DIODE 1N4148 T26 NS		EA	1.00000	N	
...4	0D702		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0D703		Y	6412001704	DIODE 1N4148 T26 NS		EA	1.00000	N	
...4	0D705		Y	6412001704	DIODE 1N4148 T26 NS		EA	1.00000	N	
...4	0D706		Y	6412001704	DIODE 1N4148 T26 NS		EA	1.00000	N	
...4	0D708		Y	6412001704	DIODE 1N4148 T26 NS		EA	1.00000	N	
...4	0D801	S0	Y	6412011317	DIODE 1N5406AMP T52 3A/600V		EA	1.00000	N	
...4	0D802	S0	Y	6412011317	DIODE 1N5406AMP T52 3A/600V		EA	1.00000	N	
...4	0D803	S0	Y	6412011317	DIODE 1N5406AMP T52 3A/600V		EA	1.00000	N	
...4	0D804	S0	Y	6412011317	DIODE 1N5406AMP T52 3A/600V		EA	1.00000	N	
...4	0D805	S0	Y	6412007927	DIODE FUF4006AMP T52 1A/800V		EA	1.00000	N	
...4	0D805	S1	Y	6412007937	DIODE BYV26D,113 T52 1A/800V		EA	1.00000	N	
...4	0D806		Y	6412003614	DIODE UF1004M T26 1A/400V LITE		EA	1.00000	N	
...4	0D807		Y	6412001704	DIODE 1N4148 T26 NS		EA	1.00000	N	
...4	0D808		Y	6412009604	DIODE 1N4004 T26 1A/400V		EA	1.00000	N	
...4	0D809		Y	6412011604	DIODE 1N4936 T26 1A/400V LITE		EA	1.00000	N	
...4	0D810		Y	6412001704	DIODE 1N4148 T26 NS		EA	1.00000	N	
...4	0D811		Y	6412001704	DIODE 1N4148 T26 NS		EA	1.00000	N	
...4	0D812		Y	6412001704	DIODE 1N4148 T26 NS		EA	1.00000	N	
...4	0D813		Y	6412000520	DIODE RL4A 3A/600V 50nS SANKEN		EA	1.00000	N	
...4	0D814		Y	6412017900	DIODE RL3 3.5A/350V SANKEN		EA	1.00000	N	
...4	0D815		Y	6412004117	DIODE UF2004M T52 2A/400V 50nS		EA	1.00000	N	
...4	0D817		Y	6412001934	DIODE FUF4007AMP T26 1A/1KV		EA	1.00000	N	
...4	0D820		Y	6412002017	DIODE UF3004M T52 3A/400V 50nS		EA	1.00000	N	
...4	0D821		Y	6412001704	DIODE 1N4148 T26 NS		EA	1.00000	N	
...4	0D822		Y	6412001704	DIODE 1N4148 T26 NS		EA	1.00000	N	
...4	0D823		Y	6412001704	DIODE 1N4148 T26 NS		EA	1.00000	N	
...4	0D824		Y	6412001704	DIODE 1N4148 T26 NS		EA	1.00000	N	
...4	0F801	S1	Y	6851504051	FUSE TIME LAG H-BRK 19181-4A		EA	1.00000	B	S
...4	0F801	S0	Y	6851504050	FUSE TIME LAG H-BRK 4A/250V		EA	1.00000	N	S
...4	0GND1		Y	6631010020	TEST PIN 1P 2.36MM		EA	1.00000	N	
...4	0GND2		Y	6631010020	TEST PIN 1P 2.36MM		EA	1.00000	N	
...4	0I301		Y	6442012300	IC TDA4866 9P (PHILIPS)		EA	1.00000	N	
...4	0I401		Y	6442020700	IC TDA4854 32P SDIP (PHILIPS)		EA	1.00000	N	
...4	0I701		Y	6448012220	IC NT6861-0018 40P PDIP MASK		EA	1.00000	N	
...4	0I703		Y	6448007900	IC 24C04A/P (MICROCHIP)		EA	1.00000	B	
...4	0I704		Y	6448007430	IC 24LC211/P 8P EEPROM (MC)		EA	1.00000	N	
...4	0I801	S1	Y	6442006020	IC UC3842BN 8P PDIP (ST)		EA	1.00000	N	
...4	0I801	S0	Y	6442022000	IC KA3842AC 8P PDIP SAMSUNG		EA	1.00000	N	

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...4	0J001		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J002		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J003		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J004		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J005		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J006		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J007		Y	6212110054	CF OHM 10 1/4W J T26 MINI		EA	1.00000	N	
...4	0J008		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J009		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J010		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J011		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J012		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J013		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J014		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J015		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J016		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J017		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J018		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J019		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J020		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J021		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J022		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J023		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J024		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J025		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J026		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J027		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J028		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J029		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J030		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J031		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J032		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J033		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J038		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J039		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J040		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J041		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J042		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J043		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J045		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J046		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J048		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J050		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J051		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J052		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J053		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J054		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J055		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J056		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J057		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J058		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J059		Y	6700060000	JUMPER WIRE		KG	.00009	N	

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...4	0J060		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J061		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J062		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J063		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J064		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J065		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J069		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J070		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J071		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J072		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J073		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J074		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J075		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J076		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J077		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J078		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J079		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J080		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J081		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J082		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J083		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J084		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J085		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J086		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J087		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J088		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J089		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J090		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J091		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J092		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J093		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J094		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J095		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J096		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J097		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J098		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J099		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J100		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J101		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J102		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J104		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J105		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J106		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J107		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J108		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J109		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J110		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J111		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J112		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J113		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J114		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J115		Y	6700060000	JUMPER WIRE		KG	.00009	N	

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Level	CktId	Grp	APR	Item No.	Description	Drawing No	UM	Usage Qty	B/N	S
...4	0J116		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J117		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J119		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J120		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J121		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J122		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J123		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J124		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J125		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J126		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J127		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J128		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0L301		Y	6881001507	BEAD CORE W5 RH3.5x6x1.0T		EA	1.00000	N	
...4	0L302		Y	6881001507	BEAD CORE W5 RH3.5x6x1.0T		EA	1.00000	N	
...4	0L402		Y	6881001507	BEAD CORE W5 RH3.5x6x1.0T		EA	1.00000	N	
...4	0L403		Y	6881001507	BEAD CORE W5 RH3.5x6x1.0T		EA	1.00000	N	
...4	0L404		Y	6111504130	COIL CHOKE 5mH K DR10x16 LY3B		EA	1.00000	N	
...4	0L405	CO	Y	6119005302	COIL LINEAR TLN-1053(B) 4.59uH		EA	1.00000	N	
...4	0L406		Y	6111526130	COIL CHOKE 52uH K DRWW10x16C5A		EA	1.00000	N	
...4	0L407		Y	6212110154	CF OHM 100 1/4W J T26 MINI		EA	1.00000	N	
...4	0L408		Y	6115101104	COIL PEAKING 100 uH K T26		EA	1.00000	N	
...4	0L409		Y	6111105131	COIL CHOKE L=105uH K DRWW16x18		EA	1.00000	B	
...4	0L411		Y	6881001507	BEAD CORE W5 RH3.5x6x1.0T		EA	1.00000	N	
...4	0L412		Y	6881001407	BEAD CORE C8B RH3.5x9x1.0T		EA	1.00000	N	
...4	0L413		Y	6881001407	BEAD CORE C8B RH3.5x9x1.0T		EA	1.00000	N	
...4	0L414		Y	6881001507	BEAD CORE W5 RH3.5x6x1.0T		EA	1.00000	N	
...4	0L415		Y	6881001407	BEAD CORE C8B RH3.5x9x1.0T		EA	1.00000	N	
...4	0L416		Y	6881001407	BEAD CORE C8B RH3.5x9x1.0T		EA	1.00000	N	
...4	0L417		Y	6881001407	BEAD CORE C8B RH3.5x9x1.0T		EA	1.00000	N	
...4	0L418		Y	6881001007	BEAD CORE K5B RH 3.5x3.5x0.8 T		EA	1.00000	N	
...4	0L701		Y	6881000367	BEAD CORE A6RH 3.5*4.7*0.8 T52		EA	1.00000	N	
...4	0L702		Y	6881000367	BEAD CORE A6RH 3.5*4.7*0.8 T52		EA	1.00000	N	
...4	0L703		Y	6881000367	BEAD CORE A6RH 3.5*4.7*0.8 T52		EA	1.00000	N	
...4	0L704		Y	6881000367	BEAD CORE A6RH 3.5*4.7*0.8 T52		EA	1.00000	N	
...4	0L705		Y	6881000367	BEAD CORE A6RH 3.5*4.7*0.8 T52		EA	1.00000	N	
...4	0L801		Y	6111155133	COIL CHOKE L=150uH K DRWW14x15		EA	1.00000	N	
...4	0L802		Y	6881001507	BEAD CORE W5 RH3.5x6x1.0T		EA	1.00000	N	
...4	0L803		Y	6111156130	COIL CHOKE L=15uH K DR 8x10		EA	1.00000	B	
...4	0L805		Y	6881001507	BEAD CORE W5 RH3.5x6x1.0T		EA	1.00000	N	
...4	0L808		Y	6881001507	BEAD CORE W5 RH3.5x6x1.0T		EA	1.00000	N	
...4	0L809		Y	6881001507	BEAD CORE W5 RH3.5x6x1.0T		EA	1.00000	N	
...4	0L810		Y	6881001507	BEAD CORE W5 RH3.5x6x1.0T		EA	1.00000	N	
...4	0L811		Y	6881001507	BEAD CORE W5 RH3.5x6x1.0T		EA	1.00000	N	
...4	0L812		Y	6221110052	MOF OHM 10 1W J HOR		EA	1.00000	N	
...4	0P121		Y	6611020021	PLUG 2P 2.5 JWT-A2501WV2-2P		EA	1.00000	N	
...4	0P301		Y	6611040062	PLUG 4P 10/8/8SLIDE NICKLE AMP		EA	1.00000	N	
...4	0P802		Y	6614020030	WAFER 2P 8-10mm 1086P020001		EA	1.00000	N	
...4	0P805		Y	6611020090	PLUG 2P 2.54mm PHSS-2P		EA	1.00000	N	
...4	0Q121		Y	6421001405	TR NPN KSC2328A-Y-TA (SAMSUNG)		EA	1.00000	B	
...4	0Q122		Y	6424000905	TR PNP KSA928A-Y-TA (SAMSUNG)		EA	1.00000	B	
...4	0Q123	S2	Y	6421000325	TR NPN 2SC1815-Y(TPE2) TOSHIBA		EA	1.00000	B	
...4	0Q123	S0	Y	6421000515	TR NPN KSC945C-G-TA (SAMSUNG)		EA	1.00000	B	

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Level	CktId	Grp	APR	Item No.	Description	Drawing No	UM	Usage Qty	B/N	S
...4	0Q123	S1	Y	6421000415	TR NPN KSC945C-Y-TA TAP(SAMSUN		EA	1.00000	B	
...4	0Q123	S3	Y	6421000035	TR NPN 2SC945P TAPING		EA	1.00000	N	
...4	0Q401		Y	6421002705	TR NPN KSD1616A-G-TA (SAMSUNG)		EA	1.00000	N	
...4	0Q402		Y	6421004400	TR NPN 2SC5386 (TOSHIBA)		EA	1.00000	N	
...4	0Q403	S0	Y	6421004500	TR NPN KSC5042F TO220F SAMSUNG		EA	1.00000	N	
...4	0Q403	S1	Y	6421003100	TR NPN 2SC4686A (TOSHIBA)		EA	1.00000	N	
...4	0Q404	S0	Y	6421004500	TR NPN KSC5042F TO220F SAMSUNG		EA	1.00000	N	
...4	0Q404	S1	Y	6421003100	TR NPN 2SC4686A (TOSHIBA)		EA	1.00000	N	
...4	0Q405	S1	Y	6422002905	TR NPN BF422(TPE2) (TOSHIBA)		EA	1.00000	B	
...4	0Q405	S0	Y	6422002925	TR NPN HBF422T/B TO-92 TAPING		EA	1.00000	N	
...4	0Q406	S2	Y	6421000325	TR NPN 2SC1815-Y(TPE2) TOSHIBA		EA	1.00000	B	
...4	0Q406	S0	Y	6421000515	TR NPN KSC945C-G-TA (SAMSUNG)		EA	1.00000	B	
...4	0Q406	S1	Y	6421000415	TR NPN KSC945C-Y-TA TAP(SAMSUN		EA	1.00000	B	
...4	0Q406	S3	Y	6421000035	TR NPN 2SC945P TAPING		EA	1.00000	N	
...4	0Q407		Y	6424000025	TR PNP BF423(TPE2) (TOSHIBA)		EA	1.00000	B	
...4	0Q409	S2	Y	6421000325	TR NPN 2SC1815-Y(TPE2) TOSHIBA		EA	1.00000	B	
...4	0Q409	S0	Y	6421000515	TR NPN KSC945C-G-TA (SAMSUNG)		EA	1.00000	B	
...4	0Q409	S1	Y	6421000415	TR NPN KSC945C-Y-TA TAP(SAMSUN		EA	1.00000	B	
...4	0Q409	S3	Y	6421000035	TR NPN 2SC945P TAPING		EA	1.00000	N	
...4	0Q410	S3	Y	6423000045	TR PNP 2SA733P-T TAPING (NEC)		EA	1.00000	N	
...4	0Q410	S0	Y	6423000205	TR PNP KSA733C-G-TA (SAMSUNG)		EA	1.00000	B	
...4	0Q410	S1	Y	6423000115	TR PNP KSA733C-Y-TA frmKSA1015		EA	1.00000	B	
...4	0Q410	S2	Y	6423000015	TR PNP 2SA1015-Y(TPE2) TOSHIBA		EA	1.00000	B	
...4	0Q412	S2	Y	6421000325	TR NPN 2SC1815-Y(TPE2) TOSHIBA		EA	1.00000	B	
...4	0Q412	S0	Y	6421000515	TR NPN KSC945C-G-TA (SAMSUNG)		EA	1.00000	B	
...4	0Q412	S1	Y	6421000415	TR NPN KSC945C-Y-TA TAP(SAMSUN		EA	1.00000	B	
...4	0Q412	S3	Y	6421000035	TR NPN 2SC945P TAPING		EA	1.00000	N	
...4	0Q413	S2	Y	6421000325	TR NPN 2SC1815-Y(TPE2) TOSHIBA		EA	1.00000	B	
...4	0Q413	S0	Y	6421000515	TR NPN KSC945C-G-TA (SAMSUNG)		EA	1.00000	B	
...4	0Q413	S1	Y	6421000415	TR NPN KSC945C-Y-TA TAP(SAMSUN		EA	1.00000	B	
...4	0Q413	S3	Y	6421000035	TR NPN 2SC945P TAPING		EA	1.00000	N	
...4	0Q414	S2	Y	6423000015	TR PNP 2SA1015-Y(TPE2) TOSHIBA		EA	1.00000	B	
...4	0Q414	S0	Y	6423000205	TR PNP KSA733C-G-TA (SAMSUNG)		EA	1.00000	B	
...4	0Q414	S1	Y	6423000115	TR PNP KSA733C-Y-TA frmKSA1015		EA	1.00000	B	
...4	0Q414	S3	Y	6423000045	TR PNP 2SA733P-T TAPING (NEC)		EA	1.00000	N	
...4	0Q415	S0	Y	6423000205	TR PNP KSA733C-G-TA (SAMSUNG)		EA	1.00000	B	
...4	0Q415	S1	Y	6423000115	TR PNP KSA733C-Y-TA frmKSA1015		EA	1.00000	B	
...4	0Q415	S2	Y	6423000015	TR PNP 2SA1015-Y(TPE2) TOSHIBA		EA	1.00000	B	
...4	0Q415	S3	Y	6423000045	TR PNP 2SA733P-T TAPING (NEC)		EA	1.00000	N	
...4	0Q416	S2	Y	6423000015	TR PNP 2SA1015-Y(TPE2) TOSHIBA		EA	1.00000	B	
...4	0Q416	S3	Y	6423000045	TR PNP 2SA733P-T TAPING (NEC)		EA	1.00000	N	
...4	0Q416	S0	Y	6423000205	TR PNP KSA733C-G-TA (SAMSUNG)		EA	1.00000	B	
...4	0Q416	S1	Y	6423000115	TR PNP KSA733C-Y-TA frmKSA1015		EA	1.00000	B	
...4	0Q417	S2	Y	6423000015	TR PNP 2SA1015-Y(TPE2) TOSHIBA		EA	1.00000	B	
...4	0Q417	S3	Y	6423000045	TR PNP 2SA733P-T TAPING (NEC)		EA	1.00000	N	
...4	0Q417	S0	Y	6423000205	TR PNP KSA733C-G-TA (SAMSUNG)		EA	1.00000	B	
...4	0Q417	S1	Y	6423000115	TR PNP KSA733C-Y-TA frmKSA1015		EA	1.00000	B	
...4	0Q418	S1	Y	6422002905	TR NPN BF422(TPE2) (TOSHIBA)		EA	1.00000	B	
...4	0Q418	S0	Y	6422002925	TR NPN HBF422T/B TO-92 TAPING		EA	1.00000	N	
...4	0Q419		Y	6422006000	TR NPN 2SD2012 TO-220(IS)		EA	1.00000	B	
...4	0Q420		Y	6426006400	FET N-CHNL IRFS630A SAMSUNG		EA	1.00000	N	
...4	0Q421		Y	6426006400	FET N-CHNL IRFS630A SAMSUNG		EA	1.00000	N	

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Level	CktId	Grp	APR	Item No.	Description	Drawing No	UM	Usage Qty	B/N	S
...4	0Q422	S2	Y	6421000325	TR NPN 2SC1815-Y(TPE2) TOSHIBA		EA	1.00000	B	
...4	0Q422	S0	Y	6421000515	TR NPN KSC945C-G-TA (SAMSUNG)		EA	1.00000	B	
...4	0Q422	S1	Y	6421000415	TR NPN KSC945C-Y-TA TAP(SAMSUN		EA	1.00000	B	
...4	0Q422	S3	Y	6421000035	TR NPN 2SC945P TAPING		EA	1.00000	N	
...4	0Q423	S2	Y	6421000325	TR NPN 2SC1815-Y(TPE2) TOSHIBA		EA	1.00000	B	
...4	0Q423	S0	Y	6421000515	TR NPN KSC945C-G-TA (SAMSUNG)		EA	1.00000	B	
...4	0Q423	S1	Y	6421000415	TR NPN KSC945C-Y-TA TAP(SAMSUN		EA	1.00000	B	
...4	0Q423	S3	Y	6421000035	TR NPN 2SC945P TAPING		EA	1.00000	N	
...4	0Q424	S2	Y	6421000325	TR NPN 2SC1815-Y(TPE2) TOSHIBA		EA	1.00000	B	
...4	0Q424	S0	Y	6421000515	TR NPN KSC945C-G-TA (SAMSUNG)		EA	1.00000	B	
...4	0Q424	S1	Y	6421000415	TR NPN KSC945C-Y-TA TAP(SAMSUN		EA	1.00000	B	
...4	0Q424	S3	Y	6421000035	TR NPN 2SC945P TAPING		EA	1.00000	N	
...4	0Q426		Y	6424003300	TR PNP KSB772-Y (SAMSUNG)		EA	1.00000	N	
...4	0Q427		Y	6421003800	TR NPN KSD882-Y (SAMSUNG)		EA	1.00000	N	
...4	0Q428	S1	Y	6422002905	TR NPN BF422(TPE2) (TOSHIBA)		EA	1.00000	B	
...4	0Q428	S0	Y	6422002925	TR NPN HBF422T/B TO-92 TAPING		EA	1.00000	N	
...4	0Q430		Y	6426006400	FET N-CHNL IRFS630A SAMSUNG		EA	1.00000	N	
...4	0Q431	S3	Y	6423000045	TR PNP 2SA733P-T TAPING (NEC)		EA	1.00000	N	
...4	0Q431	S0	Y	6423000205	TR PNP KSA733C-G-TA (SAMSUNG)		EA	1.00000	B	
...4	0Q431	S1	Y	6423000115	TR PNP KSA733C-Y-TA frmKSA1015		EA	1.00000	B	
...4	0Q431	S2	Y	6423000015	TR PNP 2SA1015-Y(TPE2) TOSHIBA		EA	1.00000	B	
...4	0Q701	S0	Y	6421000515	TR NPN KSC945C-G-TA (SAMSUNG)		EA	1.00000	B	
...4	0Q701	S2	Y	6421000325	TR NPN 2SC1815-Y(TPE2) TOSHIBA		EA	1.00000	B	
...4	0Q701	S1	Y	6421000415	TR NPN KSC945C-Y-TA TAP(SAMSUN		EA	1.00000	B	
...4	0Q701	S3	Y	6421000035	TR NPN 2SC945P TAPING		EA	1.00000	N	
...4	0Q702	S0	Y	6421000515	TR NPN KSC945C-G-TA (SAMSUNG)		EA	1.00000	B	
...4	0Q702	S2	Y	6421000325	TR NPN 2SC1815-Y(TPE2) TOSHIBA		EA	1.00000	B	
...4	0Q702	S1	Y	6421000415	TR NPN KSC945C-Y-TA TAP(SAMSUN		EA	1.00000	B	
...4	0Q702	S3	Y	6421000035	TR NPN 2SC945P TAPING		EA	1.00000	N	
...4	0Q703	S0	Y	6421000515	TR NPN KSC945C-G-TA (SAMSUNG)		EA	1.00000	B	
...4	0Q703	S2	Y	6421000325	TR NPN 2SC1815-Y(TPE2) TOSHIBA		EA	1.00000	B	
...4	0Q703	S1	Y	6421000415	TR NPN KSC945C-Y-TA TAP(SAMSUN		EA	1.00000	B	
...4	0Q703	S3	Y	6421000035	TR NPN 2SC945P TAPING		EA	1.00000	N	
...4	0Q704		Y	6423000205	TR PNP KSA733C-G-TA (SAMSUNG)		EA	1.00000	B	
...4	0Q705	S2	Y	6421000325	TR NPN 2SC1815-Y(TPE2) TOSHIBA		EA	1.00000	B	
...4	0Q705	S0	Y	6421000515	TR NPN KSC945C-G-TA (SAMSUNG)		EA	1.00000	B	
...4	0Q705	S1	Y	6421000415	TR NPN KSC945C-Y-TA TAP(SAMSUN		EA	1.00000	B	
...4	0Q705	S3	Y	6421000035	TR NPN 2SC945P TAPING		EA	1.00000	N	
...4	0Q801	S2	Y	6421000325	TR NPN 2SC1815-Y(TPE2) TOSHIBA		EA	1.00000	B	
...4	0Q801	S0	Y	6421000515	TR NPN KSC945C-G-TA (SAMSUNG)		EA	1.00000	B	
...4	0Q801	S1	Y	6421000415	TR NPN KSC945C-Y-TA TAP(SAMSUN		EA	1.00000	B	
...4	0Q801	S3	Y	6421000035	TR NPN 2SC945P TAPING		EA	1.00000	N	
...4	0Q802	S2	Y	6421000325	TR NPN 2SC1815-Y(TPE2) TOSHIBA		EA	1.00000	B	
...4	0Q802	S0	Y	6421000515	TR NPN KSC945C-G-TA (SAMSUNG)		EA	1.00000	B	
...4	0Q802	S1	Y	6421000415	TR NPN KSC945C-Y-TA TAP(SAMSUN		EA	1.00000	B	
...4	0Q802	S3	Y	6421000035	TR NPN 2SC945P TAPING		EA	1.00000	N	
...4	0Q803		Y	6426006800	FET N-CHNL SSS10N60A SAMSUNG		EA	1.00000	N	
...4	0Q804	S2	Y	6423000015	TR PNP 2SA1015-Y(TPE2) TOSHIBA		EA	1.00000	B	
...4	0Q804	S0	Y	6423000205	TR PNP KSA733C-G-TA (SAMSUNG)		EA	1.00000	B	
...4	0Q804	S1	Y	6423000115	TR PNP KSA733C-Y-TA frmKSA1015		EA	1.00000	B	
...4	0Q804	S3	Y	6423000045	TR PNP 2SA733P-T TAPING (NEC)		EA	1.00000	N	
...4	0Q805		Y	6421001405	TR NPN KSC2328A-Y-TA (SAMSUNG)		EA	1.00000	B	

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Level	CktId	Grp	APR	Item No.	Description	Drawing No	UM	Usage Qty	B/N	S
...4	0Q806	S0	Y	6421001405	TR NPN KSC2328A-Y-TA (SAMSUNG)		EA	1.00000	B	
...4	0Q806	S1	Y	6421000305	TR NPN 2SC2120-Y(TPE2) TOSHIBA		EA	1.00000	B	
...4	0Q807		Y	6426006300	FET N-CHNL IRFS634A SAMSUNG		EA	1.00000	N	
...4	0Q808	S2	Y	6421000325	TR NPN 2SC1815-Y(TPE2) TOSHIBA		EA	1.00000	B	
...4	0Q808	S0	Y	6421000515	TR NPN KSC945C-G-TA (SAMSUNG)		EA	1.00000	B	
...4	0Q808	S1	Y	6421000415	TR NPN KSC945C-Y-TA TAP(SAMSUN		EA	1.00000	B	
...4	0Q808	S3	Y	6421000035	TR NPN 2SC945P TAPING		EA	1.00000	N	
...4	0Q809	S2	Y	6421000325	TR NPN 2SC1815-Y(TPE2) TOSHIBA		EA	1.00000	B	
...4	0Q809	S0	Y	6421000515	TR NPN KSC945C-G-TA (SAMSUNG)		EA	1.00000	B	
...4	0Q809	S1	Y	6421000415	TR NPN KSC945C-Y-TA TAP(SAMSUN		EA	1.00000	B	
...4	0Q809	S3	Y	6421000035	TR NPN 2SC945P TAPING		EA	1.00000	N	
...4	0Q811		Y	6424000905	TR PNP KSA928A-Y-TA (SAMSUNG)		EA	1.00000	B	
...4	0Q812	S2	Y	6421000325	TR NPN 2SC1815-Y(TPE2) TOSHIBA		EA	1.00000	B	
...4	0Q812	S0	Y	6421000515	TR NPN KSC945C-G-TA (SAMSUNG)		EA	1.00000	B	
...4	0Q812	S1	Y	6421000415	TR NPN KSC945C-Y-TA TAP(SAMSUN		EA	1.00000	B	
...4	0Q812	S3	Y	6421000035	TR NPN 2SC945P TAPING		EA	1.00000	N	
...4	0Q813		Y	6424003300	TR PNP KSB772-Y (SAMSUNG)		EA	1.00000	N	
...4	0Q814	S2	Y	6421000325	TR NPN 2SC1815-Y(TPE2) TOSHIBA		EA	1.00000	B	
...4	0Q814	S0	Y	6421000515	TR NPN KSC945C-G-TA (SAMSUNG)		EA	1.00000	B	
...4	0Q814	S1	Y	6421000415	TR NPN KSC945C-Y-TA TAP(SAMSUN		EA	1.00000	B	
...4	0Q814	S3	Y	6421000035	TR NPN 2SC945P TAPING		EA	1.00000	N	
...4	0Q825	S2	Y	6423000015	TR PNP 2SA1015-Y(TPE2) TOSHIBA		EA	1.00000	B	
...4	0Q825	S0	Y	6423000205	TR PNP KSA733C-G-TA (SAMSUNG)		EA	1.00000	B	
...4	0Q825	S1	Y	6423000115	TR PNP KSA733C-Y-TA frmKSA1015		EA	1.00000	B	
...4	0Q825	S3	Y	6423000045	TR PNP 2SA733P-T TAPING (NEC)		EA	1.00000	N	
...4	0Q826	S0	Y	6421000515	TR NPN KSC945C-G-TA (SAMSUNG)		EA	1.00000	B	
...4	0Q826	S1	Y	6421000415	TR NPN KSC945C-Y-TA TAP(SAMSUN		EA	1.00000	B	
...4	0Q826	S2	Y	6421000325	TR NPN 2SC1815-Y(TPE2) TOSHIBA		EA	1.00000	B	
...4	0Q826	S3	Y	6421000035	TR NPN 2SC945P TAPING		EA	1.00000	N	
...4	0R121		Y	6212139254	CF KOHM 3.9 1/4W J T26 MINI		EA	1.00000	N	
...4	0R122		Y	6212175054	CF OHM 75 1/4W J T26 MINI		EA	1.00000	N	
...4	0R123		Y	6212191154	CF OHM 910 1/4W J T26 MINI		EA	1.00000	N	
...4	0R301		Y	6224122124	MF KOHM 22.1 1/8W F T26		EA	1.00000	N	
...4	0R302		Y	6224110034	MF KOHM 100 1/8W F T26		EA	1.00000	N	
...4	0R303		Y	6212110154	CF OHM 100 1/4W J T26 MINI		EA	1.00000	N	
...4	0R304		Y	6212110154	CF OHM 100 1/4W J T26 MINI		EA	1.00000	N	
...4	0R306		Y	6212120254	CF KOHM 2 1/4W J T26 MINI		EA	1.00000	N	
...4	0R307		Y	6212112254	CF KOHM 1.2 1/4W J T26 MINI		EA	1.00000	N	
...4	0R308		Y	6212347157	CF , OHM,470 ,1/2W,J,AT52		EA	1.00000	N	
...4	0R309		Y	6221247852	MOF OHM 0.47 2W J HOR		EA	1.00000	N	
...4	0R310		Y	6212122254	CF KOHM 2.2 1/4W J T26 MINI		EA	1.00000	N	
...4	0R311		Y	6212320157	CF , OHM,200 ,1/2W,J,AT52		EA	1.00000	N	
...4	0R312		Y	6212182054	CF OHM 82 1/4W J T26 MINI		EA	1.00000	N	
...4	0R313	C0	Y	6224310087	MF OHM 1 1/2W F AT52		EA	1.00000	N	
...4	0R313	CA	Y	6224308287	MF OHM 0.82 1/2W F AT52		EA	1.00000	N	
...4	0R315		Y	6212110154	CF OHM 100 1/4W J T26 MINI		EA	1.00000	N	
...4	0R316		Y	6212110154	CF OHM 100 1/4W J T26 MINI		EA	1.00000	N	
...4	0R317		Y	6212110154	CF OHM 100 1/4W J T26 MINI		EA	1.00000	N	
...4	0R318		Y	6212110154	CF OHM 100 1/4W J T26 MINI		EA	1.00000	N	
...4	0R319		Y	6212110154	CF OHM 100 1/4W J T26 MINI		EA	1.00000	N	
...4	0R320		Y	6212143254	CF KOHM 4.3 1/4W J T26 MINI		EA	1.00000	N	
...4	0R321		Y	6212168254	CF KOHM 6.8 1/4W J T26 MINI		EA	1.00000	N	

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Level	CktId	Grp	APR	Item No.	Description	Drawing No	UM	Usage Qty	B/N	S
...4	OR328		Y	6224151124	MF KOHM 51.1 1/8W F T26		EA	1.00000	N	
...4	OR329		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	OR4A0		Y	6212182454	CF KOHM 820 1/4W J T26 MINI		EA	1.00000	N	
...4	OR4A1		Y	6212168254	CF KOHM 6.8 1/4W J T26 MINI		EA	1.00000	N	
...4	OR4A2		Y	6212110254	CF KOHM 1 1/4W J T26 MINI		EA	1.00000	N	
...4	OR4A3		Y	6212110254	CF KOHM 1 1/4W J T26 MINI		EA	1.00000	N	
...4	OR4A4		Y	6212110254	CF KOHM 1 1/4W J T26 MINI		EA	1.00000	N	
...4	OR4A5		Y	6212151454	CF KOHM 510 1/4W J T26 MINI		EA	1.00000	N	
...4	OR4A6		Y	6224160414	MF KOHM 6.04 1/8W F T26		EA	1.00000	N	
...4	OR4A7		Y	6212110154	CF OHM 100 1/4W J T26 MINI		EA	1.00000	N	
...4	OR4A8		Y	6212136354	CF KOHM 36 1/4W J T26 MINI		EA	1.00000	N	
...4	OR4A9		Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	OR4B0		Y	6212110354	CF KOHM 10 1/4W J T26 MINI		EA	1.00000	N	
...4	OR4C0		Y	6212133054	CF OHM 33 1/4W J T26 MINI		EA	1.00000	N	
...4	OR4C1		Y	6212133054	CF OHM 33 1/4W J T26 MINI		EA	1.00000	N	
...4	OR4C2		Y	6212347157	CF , OHM,470 ,1/2W,J,AT52		EA	1.00000	N	
...4	OR4C3		Y	6212110254	CF KOHM 1 1/4W J T26 MINI		EA	1.00000	N	
...4	OR4C4		Y	6212122354	CF KOHM 22 1/4W J T26 MINI		EA	1.00000	N	
...4	OR4C5		Y	6212120354	CF KOHM 20 1/4W J T26 MINI		EA	1.00000	N	
...4	OR4C6		Y	6212322057	CF , OHM, 22 ,1/2W,J,AT52		EA	1.00000	N	
...4	OR4C9		Y	6212110354	CF KOHM 10 1/4W J T26 MINI		EA	1.00000	N	
...4	OR4F1		Y	6212147454	CF KOHM 470 1/4W J T26 MINI		EA	1.00000	N	
...4	OR4F2		Y	6221122952	MOF OHM 2.2 1W J HOR		EA	1.00000	N	
...4	OR4F3		Y	6212151354	CF KOHM 51 1/4W J T26 MINI		EA	1.00000	N	
...4	OR401		Y	6212147154	CF OHM 470 1/4W J T26 MINI		EA	1.00000	N	
...4	OR403		Y	6224211024	MF KOHM 11 1/4W F T26		EA	1.00000	N	
...4	OR404		Y	6224213024	MF KOHM 13 1/4W F T26		EA	1.00000	N	
...4	OR405		Y	6224130114	MF KOHM 3.01 1/8W F T26		EA	1.00000	N	
...4	OR408		Y	6524025016	WIRE 1007 #24 BLU 25MM 6/6		EA	1.00000	N	
...4	OR409		Y	6212110254	CF KOHM 1 1/4W J T26 MINI		EA	1.00000	N	
...4	OR410		Y	6212110254	CF KOHM 1 1/4W J T26 MINI		EA	1.00000	N	
...4	OR411		Y	6212127254	CF KOHM 2.7 1/4W J T26 MINI		EA	1.00000	N	
...4	OR412		Y	6212375357	CF KOHM 75 1/2W J AT52		EA	1.00000	N	
...4	OR413		Y	6224143224	MF KOHM 43.2 1/8W F T26		EA	1.00000	N	
...4	OR414		Y	6224110024	MF KOHM 10 1/8W F T26		EA	1.00000	N	
...4	OR415		Y	6212112454	CF KOHM 120 1/4W J T26 MINI		EA	1.00000	N	
...4	OR418		Y	6224111034	MF KOHM 110 1/8W F T26		EA	1.00000	N	
...4	OR419		Y	6224127014	MF KOHM 2.7 1/8W F T26		EA	1.00000	N	
...4	OR420		Y	6224111314	MF KOHM 1.13 1/8W F T26		EA	1.00000	N	
...4	OR421		Y	6212151254	CF KOHM 5.1 1/4W J T26 MINI		EA	1.00000	N	
...4	OR422		Y	6212110254	CF KOHM 1 1/4W J T26 MINI		EA	1.00000	N	
...4	OR423		Y	6221133152	MOF OHM 330 1W J HOR		EA	1.00000	N	
...4	OR424		Y	6221201052	MOF OHM 1 2W J HOR		EA	1.00000	N	
...4	OR425		Y	6221213952	MOF OHM 1.3 2W J HOR		EA	1.00000	N	
...4	OR427		Y	6221133152	MOF OHM 330 1W J HOR		EA	1.00000	N	
...4	OR428		Y	6212168054	CF OHM 68 1/4W J T26 MINI		EA	1.00000	N	
...4	OR429		Y	6212110254	CF KOHM 1 1/4W J T26 MINI		EA	1.00000	N	
...4	OR431		Y	6212110554	CF MOHM 1 1/4W J T26 MINI		EA	1.00000	N	
...4	OR432		Y	6221110152	MOF OHM 100 1W J HOR		EA	1.00000	N	
...4	OR433		Y	6212215254	CF KOHM 1.5 1/4W J T26		EA	1.00000	N	
...4	OR434		Y	6232110453	CEM KOHM 100 5W J VERT		EA	1.00000	N	
...4	OR435		Y	6232110453	CEM KOHM 100 5W J VERT		EA	1.00000	N	

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Level	CktId	Grp	APR	Item No.	Description	Drawing No	UM	Usage Qty	B/N	S
...4	0R436		Y	6212151254	CF KOHM 5.1 1/4W J T26 MINI		EA	1.00000	N	
...4	0R437		Y	6212310257	CF ,KOHM, 1.00,1/2W,J,AT52		EA	1.00000	N	
...4	0R440		Y	6212122054	CF OHM 22 1/4W J T26 MINI		EA	1.00000	N	
...4	0R441		Y	6224227434	MF KOHM 274 1/4W F T26		EA	1.00000	N	
...4	0R442		Y	6224227434	MF KOHM 274 1/4W F T26		EA	1.00000	N	
...4	0R443		Y	6224227434	MF KOHM 274 1/4W F T26		EA	1.00000	N	
...4	0R444		Y	6212151354	CF KOHM 51 1/4W J T26 MINI		EA	1.00000	N	
...4	0R445		Y	6212310557	CF ,MOHM, 1 ,1/2W,J,AT52		EA	1.00000	N	
...4	0R446		Y	6212122054	CF OHM 22 1/4W J T26 MINI		EA	1.00000	N	
...4	0R447		Y	6212110554	CF MOHM 1 1/4W J T26 MINI		EA	1.00000	N	
...4	0R448		Y	6212147354	CF KOHM 47 1/4W J T26 MINI		EA	1.00000	N	
...4	0R449		Y	6212110354	CF KOHM 10 1/4W J T26 MINI		EA	1.00000	N	
...4	0R450		Y	6212143254	CF KOHM 4.3 1/4W J T26 MINI		EA	1.00000	N	
...4	0R451	CA	Y	6212247554	CF MOHM 4.7 1/4W J T26		EA	1.00000	N	
...4	0R451	CO	Y	6212210654	CF MOHM 10 1/4W J T26		EA	1.00000	N	
...4	0R454		Y	6212110254	CF KOHM 1 1/4W J T26 MINI		EA	1.00000	N	
...4	0R457		Y	6224112114	MF KOHM 1.21 1/8W F T26		EA	1.00000	N	
...4	0R458		Y	6212120254	CF KOHM 2 1/4W J T26 MINI		EA	1.00000	N	
...4	0R459		Y	6212143254	CF KOHM 4.3 1/4W J T26 MINI		EA	1.00000	N	
...4	0R460		Y	6212156254	CF KOHM 5.6 1/4W J T26 MINI		EA	1.00000	N	
...4	0R461		Y	6212120354	CF KOHM 20 1/4W J T26 MINI		EA	1.00000	N	
...4	0R462		Y	6212156254	CF KOHM 5.6 1/4W J T26 MINI		EA	1.00000	N	
...4	0R465		Y	6212115354	CF KOHM 15 1/4W J T26 MINI		EA	1.00000	N	
...4	0R466		Y	6224176814	MF KOHM 7.68 1/8W F T26		EA	1.00000	N	
...4	0R469		Y	6212110254	CF KOHM 1 1/4W J T26 MINI		EA	1.00000	N	
...4	0R470		Y	6212210254	CF KOHM 1 1/4W J T26		EA	1.00000	N	
...4	0R471		Y	6212110354	CF KOHM 10 1/4W J T26 MINI		EA	1.00000	N	
...4	0R472		Y	6212147054	CF OHM 47 1/4W J T26 MINI		EA	1.00000	N	
...4	0R473		Y	6212120354	CF KOHM 20 1/4W J T26 MINI		EA	1.00000	N	
...4	0R474		Y	6212222454	CF KOHM 220 1/4W J T26		EA	1.00000	N	
...4	0R475		Y	6212110254	CF KOHM 1 1/4W J T26 MINI		EA	1.00000	N	
...4	0R476		Y	6212110354	CF KOHM 10 1/4W J T26 MINI		EA	1.00000	N	
...4	0R477		Y	6212110354	CF KOHM 10 1/4W J T26 MINI		EA	1.00000	N	
...4	0R478		Y	6212147054	CF OHM 47 1/4W J T26 MINI		EA	1.00000	N	
...4	0R479		Y	6212120354	CF KOHM 20 1/4W J T26 MINI		EA	1.00000	N	
...4	0R480		Y	6212222454	CF KOHM 220 1/4W J T26		EA	1.00000	N	
...4	0R481		Y	6212120254	CF KOHM 2 1/4W J T26 MINI		EA	1.00000	N	
...4	0R482		Y	6212143254	CF KOHM 4.3 1/4W J T26 MINI		EA	1.00000	N	
...4	0R483		Y	6212110354	CF KOHM 10 1/4W J T26 MINI		EA	1.00000	N	
...4	0R484		Y	6212368057	CF OHM 68 1/2W J AT52		EA	1.00000	N	
...4	0R485		Y	6221222952	MOF OHM 2.2 2W J HOR		EA	1.00000	N	
...4	0R486		Y	6212133254	CF KOHM 3.3 1/4W J T26 MINI		EA	1.00000	N	
...4	0R487		Y	6212110354	CF KOHM 10 1/4W J T26 MINI		EA	1.00000	N	
...4	0R488		Y	6221133252	MOF KOHM 3.3 1W J HOR		EA	1.00000	N	
...4	0R489		Y	6212110254	CF KOHM 1 1/4W J T26 MINI		EA	1.00000	N	
...4	0R490		Y	6212110354	CF KOHM 10 1/4W J T26 MINI		EA	1.00000	N	
...4	0R491		Y	6212110354	CF KOHM 10 1/4W J T26 MINI		EA	1.00000	N	
...4	0R492		Y	6212147054	CF OHM 47 1/4W J T26 MINI		EA	1.00000	N	
...4	0R493		Y	6212120354	CF KOHM 20 1/4W J T26 MINI		EA	1.00000	N	
...4	0R494		Y	6212222454	CF KOHM 220 1/4W J T26		EA	1.00000	N	
...4	0R495		Y	6212110454	CF KOHM 100 1/4W J T26 MINI		EA	1.00000	N	
...4	0R498		Y	6224118224	MF KOHM 18.2 1/8W F T26		EA	1.00000	N	

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Level	CktId	Grp	APR	Item No.	Description	Drawing No	UM	Usage Qty	B/N	S
...4	OR499		Y	6224118214	MF KOHM 1.82 1/8W F T26		EA	1.00000	N	
...4	OR701		Y	6212110454	CF KOHM 100 1/4W J T26 MINI		EA	1.00000	N	
...4	OR702		Y	6212110454	CF KOHM 100 1/4W J T26 MINI		EA	1.00000	N	
...4	OR703		Y	6212310157	CF , OHM,100 ,1/2W,J,AT52		EA	1.00000	N	
...4	OR704		Y	6212310157	CF , OHM,100 ,1/2W,J,AT52		EA	1.00000	N	
...4	OR705		Y	6212168154	CF OHM 680 1/4W J T26 MINI		EA	1.00000	N	
...4	OR706		Y	6212168154	CF OHM 680 1/4W J T26 MINI		EA	1.00000	N	
...4	OR707		Y	6212168254	CF KOHM 6.8 1/4W J T26 MINI		EA	1.00000	N	
...4	OR708		Y	6212168254	CF KOHM 6.8 1/4W J T26 MINI		EA	1.00000	N	
...4	OR710		Y	6212168254	CF KOHM 6.8 1/4W J T26 MINI		EA	1.00000	N	
...4	OR711		Y	6212120354	CF KOHM 20 1/4W J T26 MINI		EA	1.00000	N	
...4	OR714		Y	6212147254	CF KOHM 4.7 1/4W J T26 MINI		EA	1.00000	N	
...4	OR715		Y	6212147254	CF KOHM 4.7 1/4W J T26 MINI		EA	1.00000	N	
...4	OR716		Y	6212133054	CF OHM 33 1/4W J T26 MINI		EA	1.00000	N	
...4	OR717		Y	6212133054	CF OHM 33 1/4W J T26 MINI		EA	1.00000	N	
...4	OR718		Y	6212168254	CF KOHM 6.8 1/4W J T26 MINI		EA	1.00000	N	
...4	OR719		Y	6212110254	CF KOHM 1 1/4W J T26 MINI		EA	1.00000	N	
...4	OR720		Y	6212127354	CF KOHM 27 1/4W J T26 MINI		EA	1.00000	N	
...4	OR722		Y	6212110354	CF KOHM 10 1/4W J T26 MINI		EA	1.00000	N	
...4	OR723		Y	6212156254	CF KOHM 5.6 1/4W J T26 MINI		EA	1.00000	N	
...4	OR724		Y	6212168254	CF KOHM 6.8 1/4W J T26 MINI		EA	1.00000	N	
...4	OR725		Y	6212110454	CF KOHM 100 1/4W J T26 MINI		EA	1.00000	N	
...4	OR726		Y	6212110454	CF KOHM 100 1/4W J T26 MINI		EA	1.00000	N	
...4	OR728		Y	6212110254	CF KOHM 1 1/4W J T26 MINI		EA	1.00000	N	
...4	OR729		Y	6212110254	CF KOHM 1 1/4W J T26 MINI		EA	1.00000	N	
...4	OR730		Y	6212110254	CF KOHM 1 1/4W J T26 MINI		EA	1.00000	N	
...4	OR731		Y	6212122254	CF KOHM 2.2 1/4W J T26 MINI		EA	1.00000	N	
...4	OR732		Y	6212122254	CF KOHM 2.2 1/4W J T26 MINI		EA	1.00000	N	
...4	OR733		Y	6212110254	CF KOHM 1 1/4W J T26 MINI		EA	1.00000	N	
...4	OR734		Y	6212147254	CF KOHM 4.7 1/4W J T26 MINI		EA	1.00000	N	
...4	OR735		Y	6212168254	CF KOHM 6.8 1/4W J T26 MINI		EA	1.00000	N	
...4	OR737		Y	6212110354	CF KOHM 10 1/4W J T26 MINI		EA	1.00000	N	
...4	OR738		Y	6212110254	CF KOHM 1 1/4W J T26 MINI		EA	1.00000	N	
...4	OR739		Y	6212110354	CF KOHM 10 1/4W J T26 MINI		EA	1.00000	N	
...4	OR740		Y	6212168254	CF KOHM 6.8 1/4W J T26 MINI		EA	1.00000	N	
...4	OR741		Y	6212168254	CF KOHM 6.8 1/4W J T26 MINI		EA	1.00000	N	
...4	OR742		Y	6212120354	CF KOHM 20 1/4W J T26 MINI		EA	1.00000	N	
...4	OR743		Y	6212168254	CF KOHM 6.8 1/4W J T26 MINI		EA	1.00000	N	
...4	OR744		Y	6212133054	CF OHM 33 1/4W J T26 MINI		EA	1.00000	N	
...4	OR745		Y	6212133054	CF OHM 33 1/4W J T26 MINI		EA	1.00000	N	
...4	OR747		Y	6212110354	CF KOHM 10 1/4W J T26 MINI		EA	1.00000	N	
...4	OR749		Y	6212247154	CF OHM 470 1/4W J T26		EA	1.00000	N	
...4	OR751		Y	6212330150	CF OHM 300 1/2W J AXIAL		EA	1.00000	N	
...4	OR801		Y	6212347457	CF ,KOHM,470 ,1/2W,J,AT52		EA	1.00000	N	S
...4	OR802		Y	6224115824	MF KOHM 15.8 1/8W F T26		EA	1.00000	N	
...4	OR803		Y	6203080017	POSISTOR 8 OHM DGC2R08M		EA	1.00000	N	S
...4	OR804	S0	Y	6201100012	THERMISTOR 10 OHM 3A P=7.5 TKS		EA	1.00000	N	S
...4	OR804	S1	Y	6201100042	THERMISTOR 10 OHM 3A P=5 UEI		EA	1.00000	N	S
...4	OR807		Y	6221251352	MOF KOHM 51 2W J HOR		EA	1.00000	N	
...4	OR808		Y	6212147154	CF OHM 470 1/4W J T26 MINI		EA	1.00000	N	
...4	OR809		Y	6212247954	CF OHM 4.7 1/4W J T26		EA	1.00000	N	
...4	OR810		Y	6232127353	CEM KOHM 27 5W J VERT		EA	1.00000	N	

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Level	CktId	Grp	APR	Item No.	Description	Drawing No	UM	Usage Qty	B/N	S
...4	OR811		Y	6220147052	FS OHM 47 1/4W J HOR		EA	1.00000	N	
...4	OR812		Y	6212120354	CF KOHM 20 1/4W J T26 MINI		EA	1.00000	N	
...4	OR813		Y	6221224852	MOF OHM 0.24 2W J HOR		EA	1.00000	N	
...4	OR814		Y	6220110252	FS KOHM 1 1/4W J HOR		EA	1.00000	N	
...4	OR815		Y	6212120354	CF KOHM 20 1/4W J T26 MINI		EA	1.00000	N	
...4	OR816		Y	6212147054	CF OHM 47 1/4W J T26 MINI		EA	1.00000	N	
...4	OR818		Y	6220327852	FS OHM 0.27 1W J HOR		EA	1.00000	N	
...4	OR819		Y	6212110454	CF KOHM 100 1/4W J T26 MINI		EA	1.00000	N	
...4	OR820		Y	6212151254	CF KOHM 5.1 1/4W J T26 MINI		EA	1.00000	N	
...4	OR821		Y	6212147154	CF OHM 470 1/4W J T26 MINI		EA	1.00000	N	
...4	OR822		Y	6232122253	CEM KOHM 2.2 5W J VERT		EA	1.00000	N	
...4	OR823		Y	6224127414	MF KOHM 2.74 1/8W F T26		EA	1.00000	N	
...4	OR824		Y	6212110354	CF KOHM 10 1/4W J T26 MINI		EA	1.00000	N	
...4	OR825		Y	6212110354	CF KOHM 10 1/4W J T26 MINI		EA	1.00000	N	
...4	OR826		Y	6212120154	CF OHM 200 1/4W J T26 MINI		EA	1.00000	N	
...4	OR827		Y	6212110254	CF KOHM 1 1/4W J T26 MINI		EA	1.00000	N	
...4	OR828		Y	6212110254	CF KOHM 1 1/4W J T26 MINI		EA	1.00000	N	
...4	OR829		Y	6212151354	CF KOHM 51 1/4W J T26 MINI		EA	1.00000	N	
...4	OR830		Y	6212362457	CF KOHM 620 1/2W J AT52		EA	1.00000	N	
...4	OR831		Y	6212362457	CF KOHM 620 1/2W J AT52		EA	1.00000	N	
...4	OR833		Y	6212110354	CF KOHM 10 1/4W J T26 MINI		EA	1.00000	N	
...4	OR834		Y	6212133154	CF OHM 330 1/4W J T26 MINI		EA	1.00000	N	
...4	OR835		Y	6212147154	CF OHM 470 1/4W J T26 MINI		EA	1.00000	N	
...4	OR836		Y	6221133152	MOF OHM 330 1W J HOR		EA	1.00000	N	
...4	OR837		Y	6212120354	CF KOHM 20 1/4W J T26 MINI		EA	1.00000	N	
...4	OR838		Y	6212147354	CF KOHM 47 1/4W J T26 MINI		EA	1.00000	N	
...4	OR839		Y	6212110054	CF OHM 10 1/4W J T26 MINI		EA	1.00000	N	
...4	OR842		Y	6221347052	MOF OHM 47 3W J HOR		EA	1.00000	N	
...4	OR843		Y	6212310257	CF ,KOHM, 1.00,1/2W,J,AT52		EA	1.00000	N	
...4	OR844		Y	6221139052	MOF OHM 39 1W J HOR		EA	1.00000	N	
...4	OR845		Y	6212320157	CF , OHM,200 ,1/2W,J,AT52		EA	1.00000	N	
...4	OR846		Y	6212110554	CF MOHM 1 1/4W J T26 MINI		EA	1.00000	N	
...4	OR847		Y	6212122554	CF MOHM 2.2 1/4W J T26 MINI		EA	1.00000	N	
...4	OR848		Y	6212124354	CF KOHM 24 1/4W J T26 MINI		EA	1.00000	N	
...4	OR849		Y	6212347057	CF , OHM, 47 ,1/2W,J,AT52		EA	1.00000	N	
...4	OR850		Y	6212120354	CF KOHM 20 1/4W J T26 MINI		EA	1.00000	N	
...4	OR851		Y	6221333252	MOF KOHM 3.3 3W J HOR		EA	1.00000	N	
...4	OR852		Y	6221233852	MOF OHM 0.33 2W J HOR		EA	1.00000	N	
...4	OR853		Y	6212147257	CF KOHM 4.7 1/4W J T52 MINI		EA	1.00000	N	
...4	OR855		Y	6212110254	CF KOHM 1 1/4W J T26 MINI		EA	1.00000	N	
...4	OR856		Y	6212139354	CF KOHM 39 1/4W J T26 MINI		EA	1.00000	N	
...4	OR857		Y	6212120254	CF KOHM 2 1/4W J T26 MINI		EA	1.00000	N	
...4	OR858		Y	6212151254	CF KOHM 5.1 1/4W J T26 MINI		EA	1.00000	N	
...4	OR859		Y	6221101052	MOF OHM 1 1W J HOR		EA	1.00000	N	
...4	OR860		Y	6221101052	MOF OHM 1 1W J HOR		EA	1.00000	N	
...4	OR864		Y	6212382457	CF KOHM 820 1/2W J AT52		EA	1.00000	N	
...4	OR865		Y	6212382457	CF KOHM 820 1/2W J AT52		EA	1.00000	N	
...4	OR866		Y	6212110354	CF KOHM 10 1/4W J T26 MINI		EA	1.00000	N	
...4	OR867		Y	6212110254	CF KOHM 1 1/4W J T26 MINI		EA	1.00000	N	
...4	OR868		Y	6212112254	CF KOHM 1.2 1/4W J T26 MINI		EA	1.00000	N	
...4	OR869		Y	6212162054	CF OHM 62 1/4W J T26 MINI		EA	1.00000	N	
...4	OR870		Y	6212162154	CF OHM 620 1/4W J T26 MINI		EA	1.00000	N	

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Level	CktId	Grp	APR	Item No.	Description	Drawing No	UM	Usage Qty	B/N	S
...4	0R871		Y	6212175254	CF KOHM 7.5 1/4W J T26 MINI		EA	1.00000	N	
...4	0R872		Y	6212112254	CF KOHM 1.2 1/4W J T26 MINI		EA	1.00000	N	
...4	0R873		Y	6221251352	MOF KOHM 51 2W J HOR		EA	1.00000	N	
...4	0R874		Y	6212110354	CF KOHM 10 1/4W J T26 MINI		EA	1.00000	N	
...4	0R875		Y	6212110354	CF KOHM 10 1/4W J T26 MINI		EA	1.00000	N	
...4	0S703		Y	6853004100	SW TACT SKHH-LM1510 P=4.5BLACK		EA	1.00000	B	
...4	0S704		Y	6853004100	SW TACT SKHH-LM1510 P=4.5BLACK		EA	1.00000	B	
...4	0S705		Y	6853004100	SW TACT SKHH-LM1510 P=4.5BLACK		EA	1.00000	B	
...4	0S706		Y	6853004100	SW TACT SKHH-LM1510 P=4.5BLACK		EA	1.00000	B	
...4	0TC01		Y	6631010020	TEST PIN 1P 2.36MM		EA	1.00000	N	
...4	0TC02		Y	6632010020	PIN TERMINAL 1P 1.56ECI7551PIN		EA	1.00000	N	
...4	0T401		Y	6135000801	XFRMR HOR DRIVE THD-1008A EI19		EA	1.00000	N	
...4	0T402		Y	6133070021	FBT TFB-7002D FEA766D SAMPO		EA	1.00000	N	S
...4	0T801	S1	Y	6138001601	LINE FILTER TLF-1016A 16mHET28		EA	1.00000	N	S
...4	0T801	S0	Y	6138001621	LINE FILTER TLF-1016A 16mHAXIS		EA	1.00000	N	S
...4	0T802	S1	Y	6131060700	XFRMER PWR TPW-1065 EE42/15DEI		EA	1.00000	N	S
...4	0T802	S0	Y	6131060710	XFRMR PWR TPW-1065 EE42/15AXIS		EA	1.00000	N	S
...4	0X701		Y	6449000710	CRYSTAL 8MHz TOP8.000 30pF TOP		EA	1.00000	N	
...4	0Z801		Y	6852501137	SPARK GAP DSP-501N-A21F T52		EA	1.00000	B	
...4	00ATE		Y	6631010020	TEST PIN 1P 2.36MM		EA	1.00000	N	
...4	00COM		Y	6711010182	HRNS 1P 50 1015#22BLK HOS/1.8T		EA	1.00000	N	
...4	00DDC		Y	6631010020	TEST PIN 1P 2.36MM		EA	1.00000	N	
...4	000AA		Y	6524280013	WIRE 1007 #24 ORG 280MM 6/6		EA	1.00000	N	
...4	02U03		N	1241000200	DATE CODE LABEL	8340000485	EA	1.00000	N	
...4	02U05		Y	7735414540	LABEL ALL MODEL	8440001964	EA	.04600	N	
...4	02U07		Y	7735415420	BARCODE LABEL FOR ALL MODEL	8440002231	EA	.16700	N	
...4	9N005		N	1250000100	SOLDER BAR, ADEPTO S63A		KG	.02500	N	
...4	9N010		N	1250000130	SOLDER WIRE, ADEPO S60A		KG	.00800	N	
...4	9N015		N	1250000143	SOLDER WIRE SUPER		EA	.00450	N	
...4	9N020		N	1250000141	SOLDER WIRE 1.2M/M		KG	.00300	N	
...4	9N025		N	1250000220	FLUX A324		GL	.00350	N	
...4	9N030		N	1250000320	THINNER 16-3552X		GL	.00500	N	
...4	9N035		N	1250000807	ADHESIVE HOT MELT		LB	.01000	N	
...4	9N040		Y	1250000415	VA-450 SCREW LOCKING		KG	.00100	N	
..3	05C01		Y	7748704600	CABLET BRACKET (BRIDGE)	8340000738	EA	1.00000	N	
..3	05C04		N	7746202150-0B	SHIELD COVER FOR A1770ASL	8140000802	EA	1.00000	N	
..3	05C05		N	7746202280-0A	TCO PLATE (A1770NST)	8340001731	EA	1.00000	N	
..3	05C06		N	7742605720-0A	WIRE SADDLES	8440002855	EA	1.00000	N	
..3	05C07		Y	7131430081	SCREW+WASHER M3*8	8440000079	EA	1.00000	N	
..3	05C08		N	7140140081	DOUBLE THREAD SCREW M4*8	8440000090	EA	1.00000	N	
..3	5C01N		Y	7130330081	TRIANGLE SCREW M3X8	8440000016	EA	1.00000	N	
..3	5C01P		Y	7131430081	SCREW+WASHER M3*8	8440000079	EA	1.00000	N	
..3	5C01Q		Y	7131440081	SCREW+WASHER M4*8	8440000079	EA	2.00000	N	
..3	5C01R		Y	7742403910	NAME PLATE (BRIDGE)	8440002038	EA	1.00000	N	
..3	5C01S		Y	7740100101	CABLE TIES	8440000030	EA	1.00000	N	
1	00000		N	5192404989	PACKING VSCA1770NST(92)~U7(C)		EA	1.00000	B	
.2	P801A		Y	6716000700	PWR CBL 1800mm U/C N-SHLD BLK		EA	1.00000	N	S
.2	0Y001		N	7730110780	VSCA1770NST E771-2M&S MANUAL		EA	1.00000	N	
.2	0Y002		N	7730201240	CD-Rom for viewsonic model		EA	1.00000	N	
.2	01P11		N	7749204703	CARTON VSC-A1770NST(E771-2)(C)	8340001739	EA	1.00000	N	
.2	01P21		N	7749102020-0B	VSC 17" (EPS)(R)	8240000820	EA	1.00000	N	
.2	01P22		N	7749102021-0B	VSC 17" (EPS)(L)	8240000821	EA	1.00000	N	

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Level	CktId	Grp	APR	Item No.	Description	Drawing No	UM	Usage Qty	B/N	S
.2	01P31		N	7749000380-0F	PE BAG 17"/SP1465MC	8440000352	EA	1.00000	N	
.2	01P51		Y	1240000402	TAPE,EARTH-713C (914M/RS)		RS	.00200	N	
.2	01P71		N	1240000252	FILM STRETCH WRAP		RL	.00150	N	
.2	01P81		N	1240000234	SINGLE-DECKED PALLET		EA	.06250	N	
.2	01P91		N	1240000609	BORAD CORRUGATED PAPER		EA	.06250	N	
.2	01P92		Y	1240000617	BOARD CORRUGATED PAPER	8340000797	EA	.06250	N	
.2	02B01		N	7735419732-0A	MODEL LABEL FOR A1770NST(TC092	8340001734	EA	1.00000	N	
.2	02P01		Y	7735416670	PACKING LABEL FOR VIEWSONIC	8340001306	EA	1.00000	N	
.2	02P03		N	1190000300	PALLET SHEET	8340000405	LB	1.00000	N	

*** End Of Report ***